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Support for AppleWorks and ///EZ Pieces Users

Valuable Tips for AppleWorks 4 Users

Our thanks to the many NAUG members who sent us letters, notes, and BBS messages with suggestions, comments, and work-arounds for AppleWorks 4. Here are three of those letters. The editorial notes are from Dan Crutcher and Randy Brandt, who reviewed these letters for NAUG.

Converting Formulas to Values

Dear NAUG:

Is there any way to change formulas to values in AppleWorks 4 spreadsheets? I used TimeOut Formula to Value to do the conversions with AppleWorks 3.0, but Formula to Value does not work with AppleWorks 4.

Dewayne Bruce
Caringbah, NSW, Australia

[Dan Crutcher replies: There are at least three ways to convert your formulas to values in AppleWorks 4. These techniques also work with earlier versions of AppleWorks.]

1. Copy the block of cells you want to convert to the clipboard. Then put the cursor in the top left cell of that block and copy the cells back from the clipboard. AppleWorks will ask if you want to copy "Formulas and Values" or "Values only". Choose "Values only"; the values will overwrite your formulas.
2. If you have UltraMacros, the following macros will convert your formulas to values one cell at a time:

```
<ba-V>:<asp cell: print $0: down>!  
//Formula to value, move down
```

```
<ba-W>:<asp cell: print $0: right>!  
//Formula to value, move right.
```

3. The DeskTools IV Updater disk in NAUG's Public Domain Library can update TimeOut Formula to Value and 21 other TimeOut applications to make them compatible with AppleWorks 4. For a complete description of this disk, see page 30 of last month's issue of the *AppleWorks Forum*.]

Tips for Macro Writers

Dear NAUG:

Here are three tips for my fellow AppleWorks 4 / UltraMacros 4.3 users:

1. If you used a poke to enable the IIGS numeric keypad in your AppleWorks 3.0 startup macro, remove it. It does the opposite in AppleWorks 4 and makes some other nasty changes. AppleWorks 4 launches with the IIGS keypad enabled.

[Randy Brandt replies: Many AppleWorks 3.0 users disabled the keypad macros by inserting the command <poke \$b504,\$39> into the startup macro in their default macro set. That let them use the keypad normally. <poke \$b504,\$27> restored the keypad macros.]

If you install your AppleWorks 3.0 default macro set in AppleWorks 4 and leave either poke in your startup macros, AppleWorks 4 becomes unstable. You should remove these pokes from all your AppleWorks macros.

With AppleWorks 4 you use the "UltraMacros options" choice on the Standard Settings Menu to enable and disable the keypad macros.]

2. Be careful using any AppleWorks 3.0 macros that contain peeks and pokes when you convert to AppleWorks 4. Many memory addresses changed in the new version of AppleWorks.

[Randy Brandt: This is true, although there is not much danger in using wrong peeks (other than the macros doing something you do not expect them to do). Wrong pokes can be dangerous.]

3. To create a macro list <sa-esc> like the default set, use a \ command in your macro label like the following:

```
label  
\sa-P Print file  
\sa-Q Quit without saving  
start
```

Richard Hosking
Essex Junction, Vermont

Work-Arounds for AppleWorks 4

Here are some work-arounds for the few minor glitches I found in AppleWorks 4.01. Some of these problems were probably solved in AppleWorks 4.02 and 4.3, but you might keep these suggestions handy in case you encounter similar problems with the newer versions of AppleWorks:

1. If you want to use <sa-esc> to select a macro, you must enable the start-up macro when you make your macros the default macro set. If you don't, AppleWorks will crash into the monitor when you press <sa-esc>.

[Dan Crutcher: This may have been true of earlier versions, but I cannot replicate this problem with AppleWorks 4.02 or 4.3.]

2. A small error in the <ba-up>, <ba-down>, and <ba-right> macros can cause unexpected deletes if you use these macros to upper-case, lower-case, or capitalize the last word in a paragraph (a word that terminates with a Return rather than a blank). To avoid this problem, use <oa-:;> or <oa-;> repeatedly on these words.

If you have UltraMacros 4.3, you can fix this problem by changing the statement "if not x = 160" to "ifnot x = 160 or x = 255" in the <ba-up>, <ba-down>, and <ba-right> macros.

[Randy Brandt: This problem was corrected in AppleWorks 4.02 and 4.3.]

3. If you use a Zip-accelerated Apple IIe, you must press the Escape Key twice about one second apart to bypass the pre-loading of the AppleWorks modules.

[Randy Brandt: The number of times you must press the Escape Key depends on whether you have a startup macro and if TimeOut is active.]

4. If you are installing UltraMacros 4.3 from scratch on AppleWorks 4.x, follow the instructions on the disk, not the abbreviated notes in the box. The directions on the box will not activate the UltraMacros debugger.

[Dan Crutcher: This is the most common question I get about AppleWorks 4. Someone will say: "I installed UltraMacros 4.3, but I can't record

macros with oa-X or get to the debugger. What's wrong?" What usually happened is that the user updated AppleWorks 4, but did not re-install UltraMacros 4.3.

For your updater to work properly you have to delete Ultra Compiler and Ultra Options from your disk and let the updater update the previous versions (assuming you still have them around). The updater will also change one byte in SEG.UM; that will give you full access to the UltraMacros functions.]

5. You can display up to 25 entries in the <sa-esc> (.macronames) window. I couldn't find this limitation documented anywhere (I may have just missed it) and I sure wish it weren't this limited.

[Dan Crutcher: This is not correct. There are a limited number of bytes available for the <sa-esc> entries, and every letter used in the entry descriptions uses up bytes. If you use short descriptions you can get more than 25 (I have 40). I do not know the total number of bytes you can use for your <sa-esc> entries.]

6. If you use an Apple IIe, remove the I.UM.IIGS.CMDS init from the Init folder. AppleWorks 4 runs more reliably on IIe systems with the IIGS init removed.

[Randy Brandt: The IIGS Init should have no impact on IIe systems. But removing the Init can save some disk space.]

Barry Schwarz
Renton, Washington

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All about AppleWorks 5

by Warren Williams and Cathleen Merritt

As a NAUG member, you know that the Apple II is alive and well in the hearts and minds of thousands of happy AppleWorks users. And now we have something else to anticipate; the release of AppleWorks 5, the “ultimate” version of AppleWorks.

Randy Brandt announced his plans for AppleWorks 5 last spring, and those plans are about to become reality. Although the comfortable menus and easy-to-use interface carry over to AppleWorks 5, the new version of AppleWorks offers more than two dozen new features and enhancements. This article describes some of the most interesting features that version 5 adds to AppleWorks.

Overall Features

File Compatibility: There is a high level of two-way file compatibility between AppleWorks 5 and earlier versions of AppleWorks. Specifically, AppleWorks 5 can read all AppleWorks 4 files. And AppleWorks 4 can read all AppleWorks 5 files that do not use the new @TODAY function in spreadsheets or the new data base features such as background text.

UltraMacros: AppleWorks 5 comes with a complete copy of UltraMacros, including a macro recorder, compiler, and debugger. The updated version of UltraMacros supports new dot commands (including “.justify”, “.password”, “.window”, “.spellpath”, “.topath”, “.initpath”, and others) and compiles all AppleWorks 4 macros.

Other Add-ons: AppleWorks 5 includes Randy Brandt’s AfterWorks screen saver and several sample AfterWorks modules. The program also ships with an updated version of Randy’s Free Patcher that lets you customize AppleWorks 5 for your working style. Finally, AppleWorks 5 lets you use the clock built into your computer to set alarms that will sound once or at the same time every day.

TimeOut Enhancements: AppleWorks 5 makes it easy to load only the TimeOut Utilities. That saves time when you launch AppleWorks. Later you can use the Utilities to load the TimeOut modules you want when you need them. AppleWorks 5 also includes TimeOut DB.Replace, which can perform Find and Replace operations in data base files.

Desktop and File Management: AppleWorks 5 remembers the last nine files you loaded onto the desktop and lets you select the files you want to load from a menu. That makes it easy to return to work with your regular files or to make changes to documents you finished in the past few hours or

days. The program also switches desktops automatically when you try to add more than 12 files to the current desktop.

AppleWorks 5 offers an improved print buffer that works on all except Apple IIc systems. Finally, AppleWorks 5’s Apple-A command offers a

“Reverse” option that inverts the order of the files listed on your screen.

“AppleWorks 5 adds exciting features that add valuable functionality to AppleWorks.”

Word Processor Enhancements

AppleWorks 5 includes a built-in outliner, a significant enhancement that is not available for AppleWorks 4. The program also offers the following new word processor features:

1. Support for outliner-specific macros.
2. Automatic loading of text files with margins set to zero inches for maximum screen width display of the file.
3. The ability to print only odd or even pages.

AppleWorks 5 Pushes the Limits

Each new version of AppleWorks includes added features that enhance the power and flexibility built into the program. But fitting new versions of AppleWorks on 5.25-inch disks and designing it to run on 128K Apple II's has become more of a problem as the developers continue to enhance the program's feature set.

Like the proverbial camel carrying its load of straw, the program has reached the limit of what can be done on 128K, 5.25-inch disk drive systems. So Randy Brandt and Dan Verkade faced a choice; stop with AppleWorks 4, or raise the limits you need to run AppleWorks. Obviously, they decided to proceed with AppleWorks 5 and raise the stakes on the equipment required to run the program.

So here is the news: AppleWorks 5 requires at least one 3.5-inch disk drive, at least 256K of RAM, and an Apple IIc, IIc Plus, IIGS, or enhanced Apple IIe system.

Some AppleWorks users will not like these limitations, but for the rest of us it is a small price to pay for a better AppleWorks.

4. An improved Find Command that preserves the current Find text string when you change files. The Find Command accepts wild cards and can find Tabs.
5. Support for non-printable comments.
6. Support for on-screen previews of printed documents. This is particularly useful for mail merge documents.
7. A re-sizeable split screen window that is preserved when you switch files.

Spreadsheet Enhancements

AppleWorks 5 offers the following new spreadsheet features:

1. Support for memos attached to individual cells.
2. An enhanced Find Command that can search for memos and for text in memos.
3. An enhanced @Alert function that updates with each spreadsheet recalculation.

4. A new @Today functions that updates with each recalculation. (@Today(0) returns today's Julian date; @Today(10) returns the Julian date for ten days from today.)
5. An enhanced @Find function that is case-sensitive. (You can use @upper or @lower to specify case-insensitive operations.)
6. Support for automatic recalculation before saving a spreadsheet file.

Data Base Enhancements

The data base enhancements include the following:

1. Support for more attractive single record layouts that include background text made up of mousetext, normal, and inverse characters.
2. The ability to hide categories in single record layout.
3. A new "Mixed Mode" in single entry layouts that lets you scroll through a list of entries in the current category. AppleWorks 5 updates the single record layout on your screen as you scroll.
4. Support for high resolution, double high resolution, or Print Shop graphics in your single record layout screens.
5. The ability to add new records to the end of a file instead of inserting the record at the current cursor position.
6. Selections based on category number whenever AppleWorks 5 displays scrollable category lists.
7. Support for complete month spellings in Date categories (for example, "February 21 1994").
8. Easier data entry by accepting both Tab and Return keystrokes to complete an entry.
9. The ability to import single record layouts from label format reports.

Conclusion

It is more than a decade since Robert Lissner wrote the first version of AppleWorks. Over those years, what started as a ground-breaking set of easy-to-use applications has become a powerful, flexible,

yet easy-to-use program that brings much of the technology of the 90's to the Apple II.

AppleWorks 5 continues that evolution. Everything you learned about earlier versions of AppleWorks works with AppleWorks 5. But each new version of the program adds exciting features that soon become essential to those of us who depend on our Apple II systems. ■

[Dr. Warren Williams, the President of NAUG, is a Professor Emeritus of Educational Technology at Eastern Michigan University and is a frequent contributor to the AppleWorks Forum.]

[Cathleen Merritt is the Director of NAUG and Editor of the AppleWorks Forum.]

[AppleWorks 5 lists for \$99 which includes the AppleWorks 4 documentation and a manual describing the new features in AppleWorks 5. Upgrades from AppleWorks 4 cost \$59 and include the "new features" manual. Upgrades from earlier versions of AppleWorks cost \$79, which includes the AppleWorks 4 manual and the new features documentation. NAUG members receive a \$5 discount on all AppleWorks 5 purchases and upgrades. Quality Computers expects to start shipping AppleWorks 5 by early November.]

[Order from Quality Computers, 20200 Nine Mile Road, St. Clair Shores, Michigan 48080; (800) 443-6697; Fax: (810) 774-2698.]

A Note to Members:

The second article in the "How to Use RAM Disks with AppleWorks 4" series will appear in next month's issue of the **AppleWorks Forum**. Although Doug Gum submitted his manuscript on time, we could not complete our tests of his procedures by press time for this issue.

New Disks in the NAUG Library

WordMaster

Writers and English teachers will appreciate WordMaster, Roy Barrows' latest contribution to NAUG's Public Domain Library. WordMaster is a set of easy-to-use macro-based enhancements that automatically generate word lists from your AppleWorks documents. You can use the word lists to create custom spelling dictionaries or to help you find the right word for your writing. Each word list can contain all the words in a document or words larger than any size you specify.

WordMaster comes on a 5.25-inch disk (\$4) or a 3.5-inch disk (\$6) and requires AppleWorks 3.0 enhanced with TimeOut or AppleWorks 4.x.

AWGS Education Data Bases 01

Creative teachers always look for tools they can use to spur student interest in their lessons. NAUG's new AWGS Education Data Bases 01 disk contains two AppleWorks GS data base files filled with information students will find unusual and interesting. Is the mosquito really the state bird of Minnesota? Are there any states without official nicknames? Who was the youngest President ever elected? The oldest? Your students might be surprised by the answers to these and hundreds of other interesting questions you can answer with the States and U.S. Presidents data bases on this disk. AWGS Education Data Bases 01 comes on a 3.5-inch disk (\$6) and requires AppleWorks GS v1.1.

AppleWorks Classic users will find AppleWorks versions of these data bases on NAUG's TAWUG School.2 and TAWUG 57/58 disks. See the NAUG Public Domain Library Catalog for a complete list of the files on those disks.

How to Order Disks

Add \$2 s/h per order to all prices. NAUG accepts Visa and MasterCard. Order from NAUG Public Domain Library, Box 87453, Canton, Michigan 48187; (313) 454-1115; Fax: (313) 454-1965. ■

How to Create Window Signs with AppleWorks

by Cynthia E. Field

Businesses have long used window signs to tell customers about their hours of operation and to advertise special sales. Now home owners and apartment dwellers are using small window signs to enhance their family's security. An emergency alert sign in a window can notify fire fighters, rescue workers, and police officers about the location of children's bedrooms, the number of people and pets in the home, and who to call in an emergency. And crime prevention statistics show that a warning sign placed near entrances can deter burglars by notifying them that you have an alarm system or that you marked your valuables.

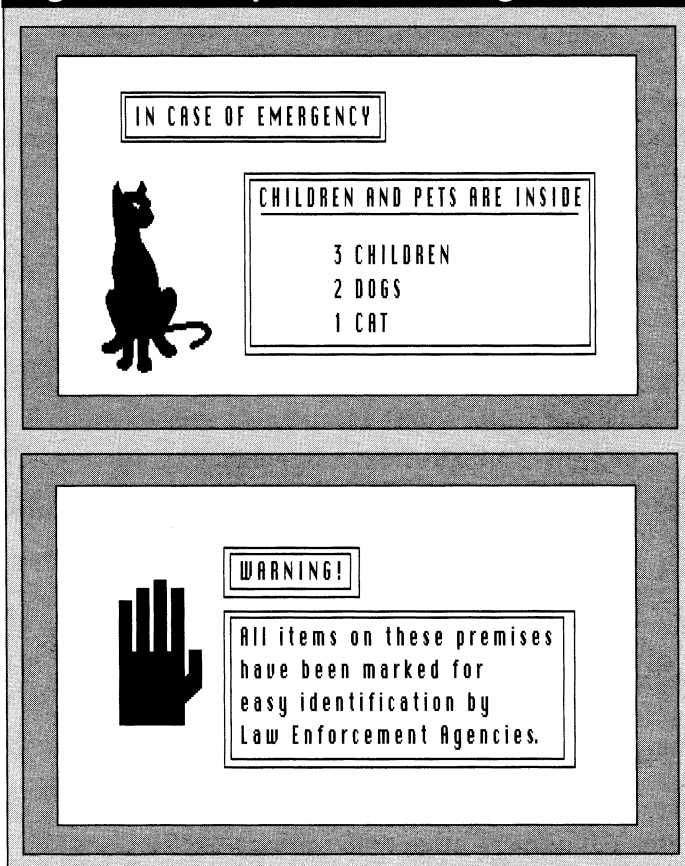
This month you will learn how to create the emergency and warning signs in *Figure 1*. You will use TimeOut Paint to create the signs and will print the signs with SuperFonts. You will then photocopy the signs on applique film and will apply the signs to windows in your home. AppleWorks GS owners should see the sidebar that describes how to create these signs with an Apple IIGS.

What You Need

In addition to AppleWorks, SuperFonts, and TimeOut Paint, you need the following supplies for this project:

- Copi-Tak applique film. (This is the self-adhesive, transparent film you used in the June/July 1994 and August/September 1994 projects in this series. You can also use clear 8.5-inch by 11-inch laser label sheets. See the Company List at the end of this article for sources of these materials.)
- Scissors.
- Colored pencils or felt-tip pens.

Figure 1: Sample Window Signs



- Acrylic spray coating.
- Clip-art from Publish It! or any other double high-resolution clip-art.

Creating the Sign

Follow these steps to create the emergency sign in *Figure 1*:

1. Launch AppleWorks, access the TimeOut Menu, and choose "Paint".
2. Select "Open" from the File Menu. Navigate through your disk directories to locate the clip-

Figure 2: Graphics from Publish-It!

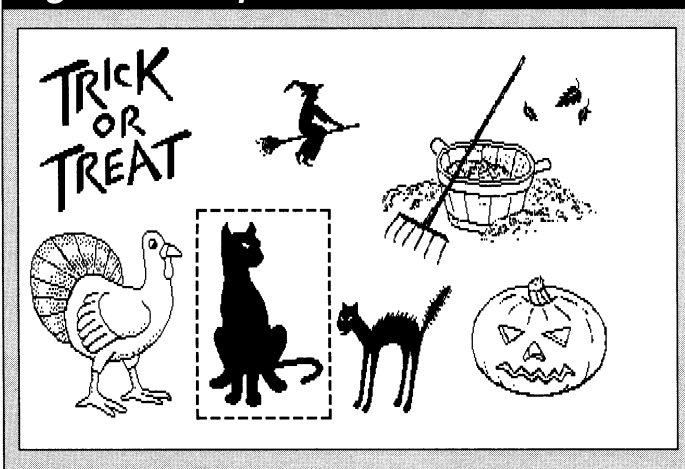
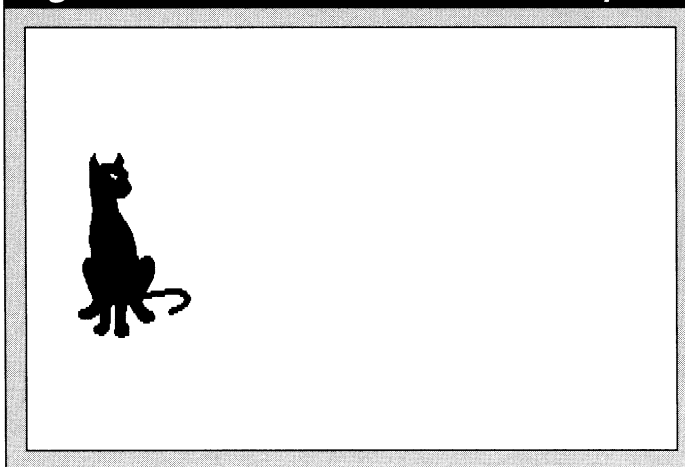


Figure 3: Paint Document with Graphic



art you want to use in your sign. (I used the "Halloween" file from Publish It! for the cat illustration in *Figure 1*. The hand in the crime prevention sign is from Publish It!'s "Signs" file.)

- Each Publish It! clip-art file contains several illustrations. Rather than re-open the file each time you want to try a different graphic, you can store the entire collection of illustrations on the TimeOut Paint clipboard. Choose "Clipboard" from the File Menu. At the "Load from or Save to clipboard?" prompt, click on "Save".

Now you will choose the graphic for your sign. Continue as follows:

- Choose "Marquee" from the Tools Menu and draw a selection rectangle around the clip-art illustration you want to use (see *Figure 2*).
- Select "Copy" from the Edit Menu.

- Select "New" from the File Menu to open a new Paint document. At the "Save changes before clearing screen?" prompt, click on "No".
- Choose "Paste" from the Edit Menu and move the selection box into position at the left edge of your screen. The illustration will not appear until you click the mouse button. Then your screen should look like the example in *Figure 3*.
- If you want to substitute a different illustration for the one you just placed, choose "Undo" from the Edit Menu. The clipboard's contents will automatically re-appear and you can choose another graphic. Then repeat steps #4 through #7 to select the new graphic and paste it into your layout. [Ed: You can view the clipboard's contents at any time by selecting "Clipboard" from the File Menu. At the "Load from or Save to clipboard?" prompt, click on "Load". Before loading a file from the clipboard, make sure you save the file you are working on if it has anything you want to keep.]

Solid black illustrations like the cat in *Figure 1* are effective on these small signs, but you should experiment with different artwork. For example, try selecting an illustration with the marquee and then choosing "Invert" from the Edit Menu.

Creating the Border

Now you will create the sign's outer boundary. Follow these steps:

- Select "Box" from the Tools Menu and draw a rectangle around the perimeter of the screen. Leave a small (two- to three-pixel) margin around the outside of the rectangle. You will use this margin later to select the sign with the marquee tool.

The rectangle is the border of your window sign. If you make the rectangle as large as possible, each printed sign will be slightly larger than 2-inches high by 3-inches wide. In this case, the dimensions do not have to be precise. [Ed: If you need precise measurements, you can use TimeOut Paint's "Coordinates" feature to create the sign. The step-by-step directions are in the SuperFonts article in last month's issue of the *AppleWorks Forum*.]

2. Save the file as "PIC.EMERGENCY".

Adding Text

Now you will add the text to your sign. Continue as follows:

1. Choose "Text" from the Tools Menu. In this tutorial you will use the default Chicago.12 font. To use a different font, select "Font" from the Goodies Menu, navigate to your Fonts directory, and choose the font you prefer.
2. Click the cursor near the top left corner of the rectangle and type "IN CASE OF EMERGENCY". For improved readability, type a space between the characters in each word and type three spaces between words. Use this inter-letter and inter-word spacing for all the text in the sign.
3. Click in the middle of the sign next to the illustration and type "CHILDREN AND PETS ARE INSIDE".
4. Click beneath the text you entered in step #3, type "3 CHILDREN" and press the Return Key to move the cursor to the next line. (You should enter the number of children you have in your home. Skip this step if you do not have children.)
5. Enter "2 DOGS" and press the Return Key. On the next line, type "1 CAT".

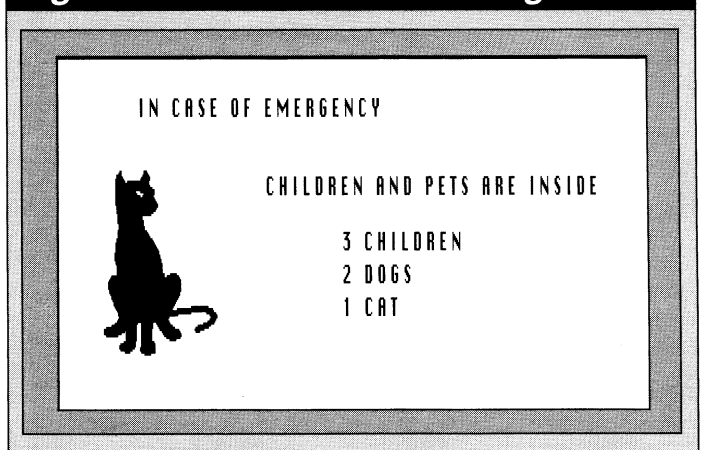
You can correct your typing mistakes by pressing the Delete Key any time before you press the Return Key or before you click in another location. After you press the Return Key or click the mouse button you must use the eraser or marquee to delete the text. Then type your correction.

Your screen should now look like the example in *Figure 4*.

Highlighting the Text

Next, you will add a line and four boxes to highlight the text in your sign. The line will emphasize that "CHILDREN AND PETS ARE INSIDE". You will use the boxes to help you color parts of the sign. Follow these steps to add the graphic elements:

Figure 4: Text Added to the Sign



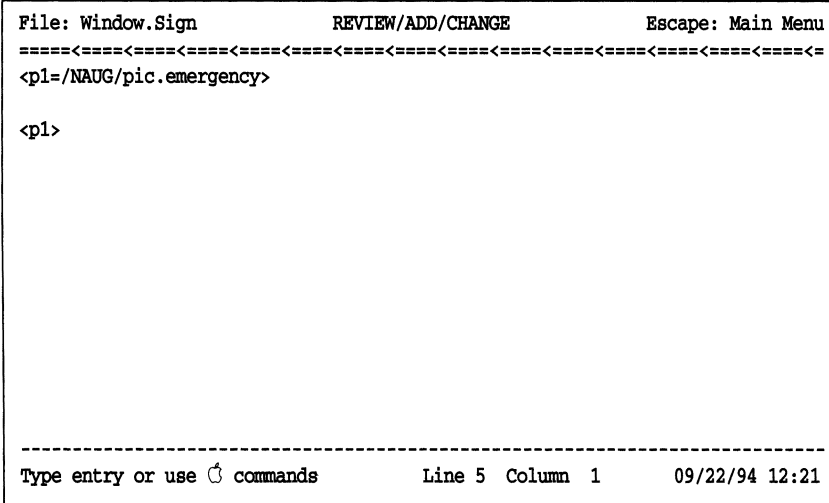
1. Choose "Line" from the Tools Menu and draw a line under "CHILDREN AND PETS ARE INSIDE". Use the marquee tool to clip the line if it is too long.
2. Select "Box" from the Tools Menu and draw a box around "IN CASE OF EMERGENCY".
3. Draw a second and slightly larger box around the first box. The small space between the rectangles creates a picture frame effect. You will color the frame after you print the sign.
4. Repeat steps #2 and #3 to create a frame around the rest of the text in the sign.
5. Save the design as EMERGENCY.PIC, quit TimeOut Paint, and return to AppleWorks.

Creating the Window Sign-Printing Template

Next, you will create an AppleWorks word processing file that prints the sign. Follow these steps:

1. Add a new word processing file to the desktop. Name the file "WINDOW.PRINTER".
2. Type the two TimeOut SuperFonts command lines in *Figure 5*. The command on line 1 tells SuperFonts the name and location of the PIC.EMERGENCY file. Use the appropriate pathname. The command on line 3 tells AppleWorks to print the sign.
3. Save the word processing file.
4. Press Apple-Escape, choose "SuperFonts", and print the sign on your screen or printer using high quality print mode. Use regular paper; do not print the sign on Copi-Tak.

Figure 5: SuperFonts Setup for Window Sign



correctly when viewed through a window.

5. Save the revised sign as "PIC.EMERGENCY" and quit TimeOut Paint.

You will probably want to put a sticker near every entrance to your home, so you should print an extra copy or two of the sign on the same page to conserve the applique film that you will use in the next step. Follow these steps to print the signs:

6. From AppleWorks, use the "WINDOW.PRINTER" template and SuperFonts to print the first sign.

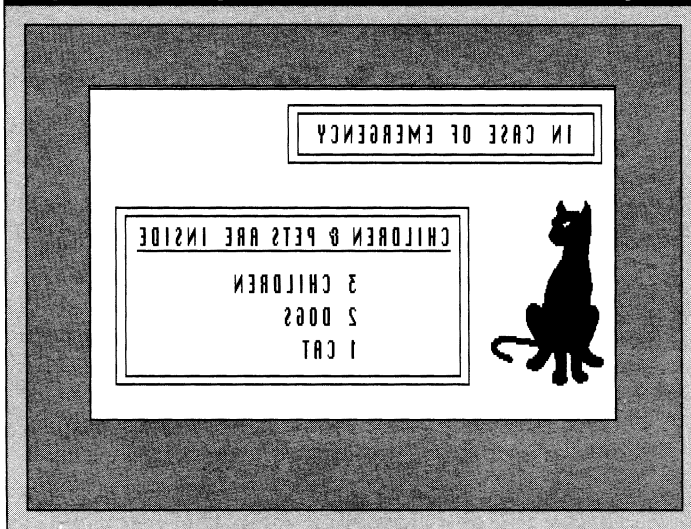
7. Re-insert the paper so the print head is under the first sign and print a second copy.
8. Re-insert and re-adjust the paper to print a third sign.
9. Photocopy the signs onto Copi-Tak. *[Ed: You can put the Copi-Tak in your printer, but the results often smear. Toner adheres better than ink to Copi-Tak.]*

Coloring the Sign

Now you are ready to put the finishing touches on your sign before attaching it to a window. Follow these steps to color and protect the sign:

1. Spray the signs lightly with acrylic protectant that you can buy in art and graphics supply stores.
2. Use colored pencils or markers to color the space between the two rectangles that comprise the "picture frames" you drew around the title and body text in each sign.
3. Lightly spray the colored signs with another coat of acrylic protectant. That will prevent the color from smearing when you smooth the sign onto the glass.
4. Cut out the signs with scissors or a paper cutter. Leave a small margin around the outer rectangle of the sign. You will use the rectangle to position the sign accurately in the next section.

Figure 6: Sign "Flipped" Horizontally



5. Proof the sign to make sure it has all the elements you want and that it looks attractive.

Now, you will return to TimeOut Paint, edit the sign if necessary, and flip it horizontally so it will "read" correctly from outside your home. Follow these steps:

1. Press Apple-Escape, select "Paint", and open "PIC.EMERGENCY".
2. Edit the sign if necessary.
3. Select "Marquee" from the Tools Menu and draw a marquee around the entire design.
4. Select "Flip Horz" from the Edit Menu. TimeOut Paint will flip the sign horizontally (see Figure 6). The now-backwards text will read

AppleWorks GS Window Signs

AppleWorks GS's graphics module makes it easy to create window signs of almost any size up to 8.5-inches by 11-inches, which is the size of standard Copi-Tak film.

If you use AppleWorks GS, import the clip-art you plan to use into a new graphics document. If the graphics file contains several illustrations, use the Marquee Tool to select and copy the illustration you want. Then open a new graphics document and paste the illustration. If your computer has enough memory, you can keep both files open and switch with the Window Menu.

Select "Choose Font..." from the Options Menu to choose the typeface, size, and style you want to use in your sign.

If you have an ImageWriter II, you can create color signs with a four-color ribbon. Use the box tool to create the two "picture frame" rectangles. Then use the Fill Tool to color the picture frame with a color you select from the paint palette. *[Ed: You may want to experiment on paper first. Colored signs produced on the ImageWriter II often seem drab compared to hand-colored signs.]*

When your design looks right, choose "Select All" from the Edit Menu and choose "Flip Horizontal" from the Arrange Menu. Your sign is now ready to print.

Then following the directions in the "Applying the Sign" section of the accompanying article to attach your sign.

Applying the Sign

Your sign is now on the Copi-Tak. Next you will attach the sign to the inside of a clean window surface close to your front or rear door. Follow these steps:

1. Begin at one edge of the sign and peel off and fold back about 1/4-inch of the protective paper on the Copi-Tak.
2. Carefully apply the edge of the sign to the glass making certain that the sign is straight.

Company List

Copi-Tak Applique Film

Fidelity Products Co.
5601 International Parkway
Box 155
Minneapolis, Minnesota 55440
(800) 326-7555
Fax: (800) 842-2725

Clear Laser Label Sheets

PaperDirect
100 Plaza Drive
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3. Use a clean tissue or cloth to smooth the edge of the sign to eliminate air bubbles or wrinkles.
4. Slowly peel away the paper backing on the Copi-Tak, smoothing the sign onto the glass as you proceed.

Conclusion

This month's window-sign project shows how to use AppleWorks, SuperFonts, and TimeOut Paint to help ensure the safety of your family, pets, and possessions. You can complete the project in an hour or so, and the peace of mind your work will bring are worth the effort.

[Dr. Cynthia E. Field was the author of inCider/A+'s popular "Press Room" column and is the Contributing Editor of the AppleWorks Forum. She is a certified Crime Prevention Practitioner and a member of several crime prevention organizations.]

[Ed: Working copies of the WINDOW.PRINTER template and the PIC.EMERGENCY and PIC.WARNING sample files appear on this month's issue of NAUG on Disk, which costs \$10 from NAUG. The templates require AppleWorks 2.0 or later enhanced with TimeOut SuperFonts. NAUG on Disk requires a 3.5-inch drive.]

How to Organize 5.25-inch AppleWorks 4 Disks

by Jack Countryman

AppleWorks continues to grow – both in power and size. Although AppleWorks 1.x fit neatly on a single 5.25-inch floppy disk, later versions of the program needed more than the 272K of space available on two sides of a single floppy disk.

Each new release of AppleWorks forces 5.25-inch disk users to find creative ways to reorganize the program files on the disks. The goal is to minimize the swapping we must do to run AppleWorks.

Figures 1 through 5 list the reorganized program disks that work best with AppleWorks 4 on my 128K Apple IIc. You use the Startup Disk to launch AppleWorks and then insert the appropriate AppleWorks program disk for the type of document on which you are working. Using this system, you only need to swap disks when you perform a spell check or switch between AppleWorks modules.

Preparing the Disks

Two things to remember before you get started:

1. Install your printers and your Settings Menu preferences before you prepare the disks. Your working program disks will not contain the files you need to install different printers or to change your preferences.
2. The word processor, data base, and spreadsheet program disks contain more data than can fit on a standard ProDOS disk. To prepare these disks, start by making three copies of an AppleWorks 2.1 Program Disk. Then delete all the files on the disk and copy the appropriate files onto each disk. Bob Lissner, the original author of AppleWorks, modified the directory structure on the AppleWorks 2.1 Program Disk so he could accommodate some extra data on the disk. By

Figure 1: Startup Disk

PRODOS	SEG.EL
APLWORKS.SYSTEM	SEG.ER
SEG.00	SEG.SN
SEG.RM	SEG.DR
SEG.AW	

Figure 2: Word Processor Disk

SEG.WP	SEG.DR
SEG.AW	SEG.ER
SEG.EL	

Figure 3: Data Base Disk

SEG.AW
SEG.DB
SEG.DR

Figure 4: Spreadsheet Disk

SEG.SN	SEG.DR
SEG.ER	SEG.SS
SEG.AW	

Figure 5: Dictionary Disk

MAIN.DICTIONARY	CUST.DICTIONARY
-----------------	-----------------

copying the disk and deleting the files, you can use that extra space for AppleWorks 4.

Although the developers of AppleWorks 4 spent considerable time organizing the files on the 5.25-inch program disks, the disks described in Figures 1 through 5 work best on my system.

[Jack Countryman is the School Psychologist for the Decatur County (Indiana) Community Schools.]

TimeOut ShrinkIt Plus Compresses Files from within AppleWorks

by Howard Katz

Like nature, computers abhor a vacuum. No matter what type of storage media you use, sooner or later you will run out of space for your AppleWorks documents and other files. You could stockpile more floppies or daisy-chain another hard drive onto your system, but those are awkward or expensive alternatives. What you really need is a way to make the best use of the storage space you already have.

That is one of the roles of TimeOut ShrinkIt Plus, a \$29.95 package from Quality Computers.

The four utilities in the ShrinkIt Plus package conserve disk space by storing your data in compressed format in files called "archives". Each archive contains one or more "shrunk" files. For example, the archive in *Figure 1* contains an original 9K version of this review compressed so it uses only 3K of disk space. The TimeOut ShrinkIt Plus utilities also work in the opposite direction: They can "open" the archives and expand your files back to their original size.

How File Compression Works

File compression utilities use special algorithms that scan your files for repetitive patterns of data that they replace with space-conserving codes. Like substituting your initials for your full name, the codes make a file smaller.

ShrinkIt Plus uses efficient "LZW" compression algorithms that compressed the AppleWorks files I tested from 64% to 27% of their original size. The amount of compression depends in part on the

amount of repetition in the data, but the savings in disk storage can be impressive; you may recover the cost of this package a lot sooner than you think. ("LZW" is named for Lempel, Ziv, and Welch who developed these algorithms.)

File Compression Suite

ShrinkIt Plus offers four independent file compression utilities: ShrinkIt, ShrinkIt GS, TimeOut ShrinkIt, and TimeOut Shrink Desk.

ShrinkIt and ShrinkIt GS are stand-alone applications you can use independent of AppleWorks. As you may know from the many ".SHK" files you encounter on bulletin board services, these programs are the de facto standards for compressing ProDOS and GS/OS files.

Figure 1: TimeOut ShrinkIt Plus Archive

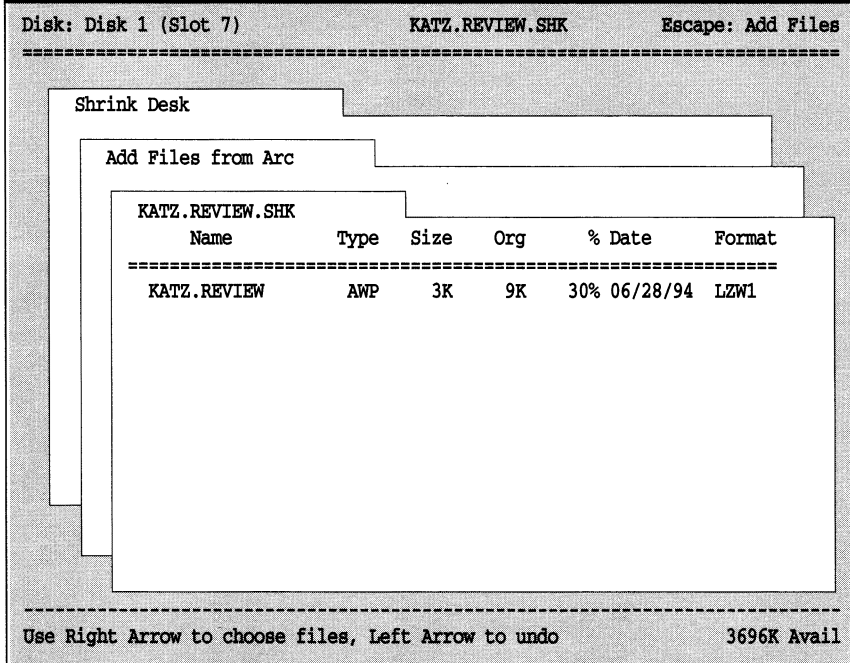


Figure 2: TimeOut ShrinkIt Menu Options

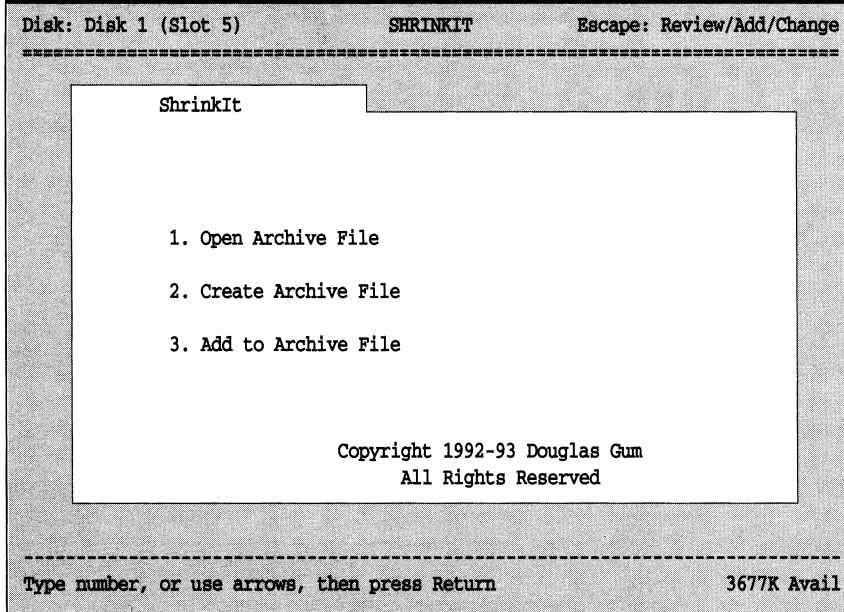
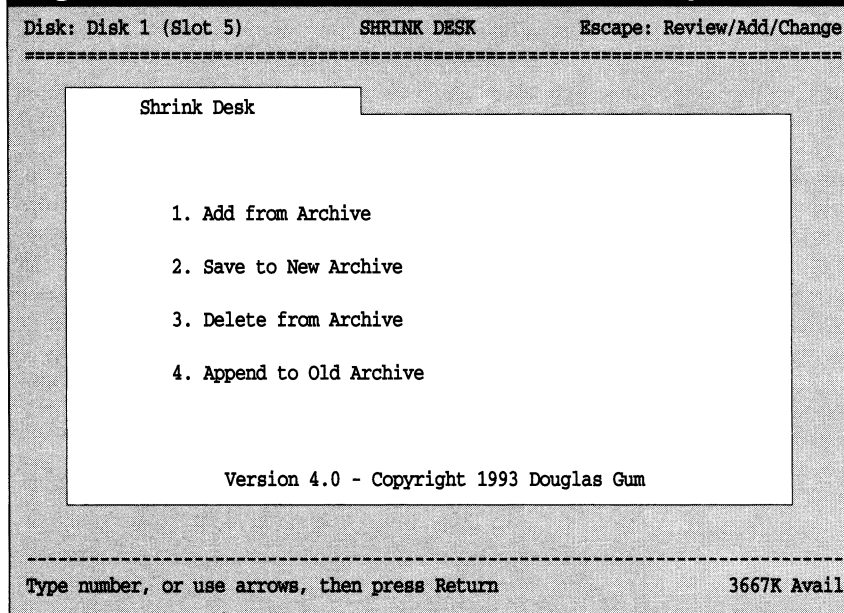


Figure 3: TimeOut Shrink Desk Menu Options



ShrinkIt and ShrinkIt GS were developed by Andy Nicholas and are freeware. You can download these programs from online services like NAUG's Electronic Forum or you can order them on disk from NAUG's Public Domain Library. Quality includes these utilities in the ShrinkIt Plus package as a convenience to users.

TimeOut ShrinkIt and TimeOut Shrink Desk are the unique components of Doug Gum's TimeOut ShrinkIt package. These valuable utilities let you compress and de-compress files without ever leav-

ing AppleWorks. The ShrinkIt Plus package includes both AppleWorks 3.0 and AppleWorks 4.x-compatible versions of both utilities.

Ease of Use

Using these utilities is easy: Just press Open-Apple-Escape and choose ShrinkIt or Shrink Desk from the TimeOut Menu.

Like its freeware namesake, TimeOut ShrinkIt (see *Figure 2*) compresses and de-compresses files stored on disks. However, the TimeOut version of ShrinkIt performs these operations within AppleWorks. Select ShrinkIt from the TimeOut Menu and you can compress and de-compress files while AppleWorks waits in the background.

Shrink Desk (see *Figure 3*) takes this convenience one step further by compressing and de-compressing files to and from the AppleWorks desktop. With Shrink Desk you do not have to save the files to disk or add the files to desktop memory after unshrinking an archive. To store the AppleWorks file on your screen in a compressed archive, you select Shrink Desk, choose "Save to New Archive" from the Shrink Desk Menu, and provide a filename for the archive. You can also add a file to an existing archive by choosing the "Append to Old Archive" option. Reversing the process is just as simple.

Installation and Configuration

Installing the utilities is easy; you copy TO.SHRINKIT and TO.SHK2DESK into your TimeOut directory and re-launch AppleWorks. The package includes an AppleWorks 4 (but not an AppleWorks 3.0) installer. You need TimeOut installed in AppleWorks if you want to use the AppleWorks 3.0 versions of these utilities.

Once installed, you can use the TimeOut Utilities to customize the installation for your system (see *Figure 4*).

Convenience and Efficiency

Compression utilities are a boon to Apple II users because these programs optimize your disk space and dramatically shorten the time it takes to transfer files by modem. That saves both time and money when you log onto bulletin boards and commercial online services.

TimeOut ShrinkIt and Shrink Desk make it easy to use .SHK AppleWorks and text files with AppleWorks. Without these utilities you must launch ShrinkIt, unshrink the files, launch AppleWorks and add the files to your desktop.

Although Shrink Desk only compresses and de-compresses AppleWorks and text files, TimeOut ShrinkIt can compress any file and can also do full disk archiving.

Shrink Desk is particularly convenient if you use TimeOut Telecomm for your telecommunications. With Telecomm, AppleWorks, and Shrink Desk, you can download an archive and extract the files for immediate viewing while the telecommunications session is still active. That lets you open, read, and comment about an archived file without logging off the telecommunications service. Just think of all the steps this eliminates when working with archived files! *[Ed:If you use TimeOut TeleComm, Shrink Desk eliminates the following steps: Log off the service. Quit the telecommunications program. Launch ShrinkIt. Unshrink the file. Quit ShrinkIt. Launch AppleWorks. Load the file onto the desktop and examine the file. Quit AppleWorks. Launch the telecommunications program. Log onto the electronic service. Send your comments to the transmitter of the file.]*

Note that some users report that TeleComm is unstable on their systems. For example, we have not been able to use TeleComm reliably on NAUG's Apple IIGS systems.]

Limitations

Of course, TimeOut ShrinkIt and Shrink Desk have their limitations.

For one, these are 8-bit programs that are running

Figure 4: Shrink Desk Configuration Screen

```
File: Figures.KATZ          CONFIGURE          Escape: Utilities
=====

                                Shrink <-> Desk Options

Loading Files                                Saving Files
1. Desktop Index after Load [Yes]          3. Mark Files as Saved [Yes]
2. Ctrl Char (TXT Files)  [# ]              4. Auto File Naming [No ]

-----
Type number, or use arrows, then press Return          3669K Avail
```

Setting the Shrink Desk Options

Shrink Desk offers four configuration settings that contribute to the program's flexibility (see *Figure 4*).

The first option determines whether the program displays your AppleWorks Desktop Index or the TimeOut Shrink Desk Menu after it expands your archives.

The "Ctrl Char (TXT Files)" option lets you change the character that Shrink Desk substitutes for any control codes in the text files you de-compress.

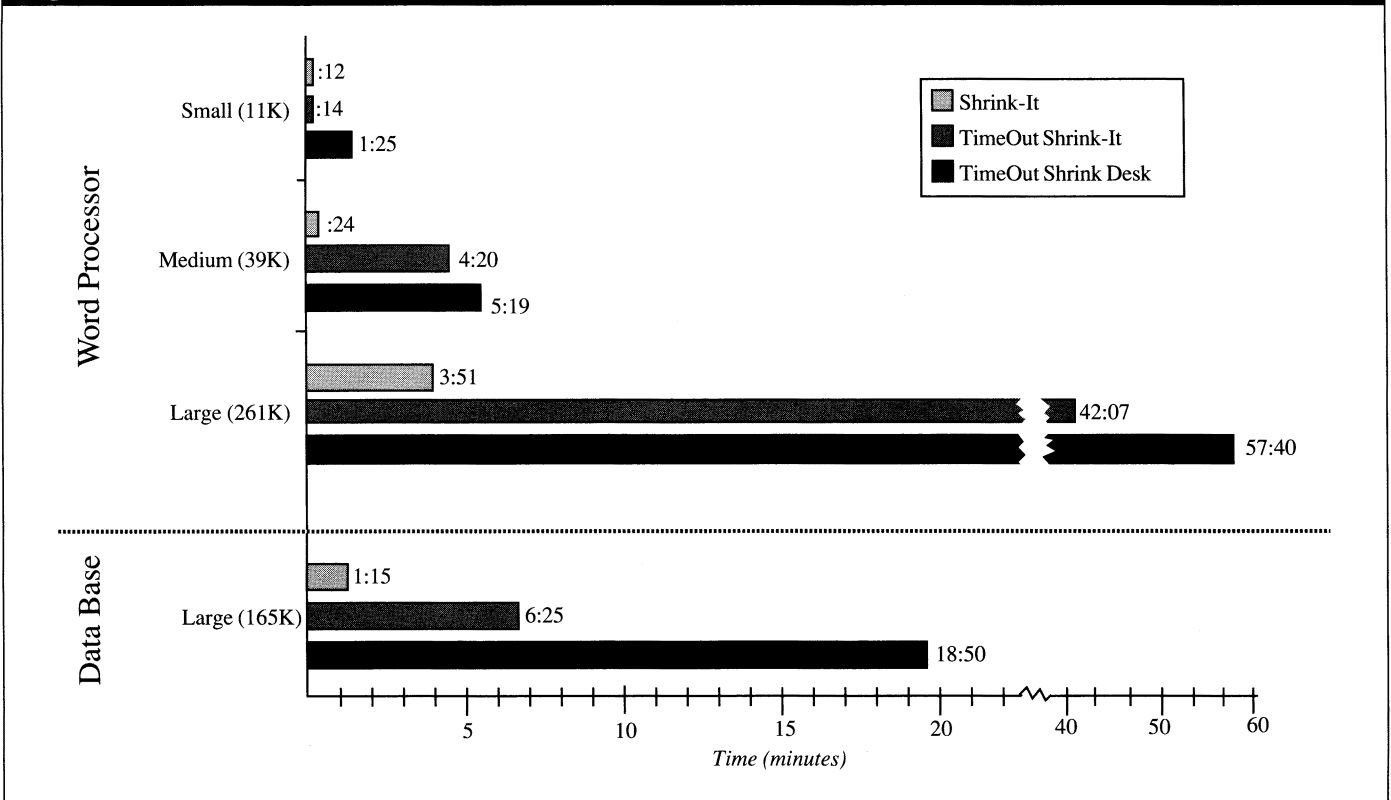
The "Mark Files as Saved" option tells AppleWorks that you saved every file you archived. With this option set to "Yes" AppleWorks will not prompt you to save the file in conventional format.

The "Auto File Naming" option tells Shrink Desk to create a default name for your archive from the first 11 characters in the name of the original desktop file. I leave this setting at "No" because I like to control my file names. But whichever way you set this option, remember to include the suffix .SHK at the end your archive file names.

The AppleWorks 3.0 version of Shrink Desk offers a fifth option, "Use DoubleData Files". Be sure to select "Yes" for this option if you use DoubleData. Otherwise, saving a DoubleData data base will cause AppleWorks to crash into the monitor.

in a ProDOS environment. They cannot handle 16-bit files created for GS/OS applications such as AppleWorks GS.

Figure 5: File Compression Speed Tests



In addition, TimeOut ShrinkIt and Shrink Desk do not offer all the functionality of the stand-alone compression applications. For example, the programs do not include the disk and file management utilities built into ShrinkIt and ShrinkIt GS. However, you won't miss these functions because they are built into AppleWorks 4 and into FileMaster-enhanced copies of AppleWorks 3.0.

Slower Compression

As you can see from the data in *Figure 5*, TimeOut ShrinkIt and Shrink Desk compress files significantly slower than their stand-alone brethren. This is particularly noticeable with larger files. Fortunately, the convenience of staying in AppleWorks will offset the longer files compression times for many users. (The time comparisons in *Figure 5* are for AppleWorks 4.02 running at normal speed on an unaccelerated Apple IIe. Compression is noticeably faster on an accelerated Apple IIe or IIfx, or an Apple IIGS running at "Fast" speed or with an accelerator.)

Fortunately, both TimeOut utilities de-compress files quickly. Since I open more files than I archive, my overall throughput is better than *Figure 5* suggests.

Documentation

AppleWorks users familiar with the TimeOut series will be able to install, configure, and use TimeOut ShrinkIt and Shrink Desk without referring to the manual. New TimeOut users will find the 32-page no-frills handbook easy to use. Although the humor that characterized the earlier TimeOut manuals is missing, the ShrinkIt Plus documentation still features straightforward language and liberal use of illustrations.

Curiously, though, the chapter describing the configuration options comes after the chapters that tell you how to use the programs. Also, the manual does not contain any information about the AppleWorks 3.0 versions of the program. At press time, Quality Computers reports it is working on an addendum for AppleWorks 3.0 users.

A one-page insert describes the freeware versions of ShrinkIt and ShrinkIt GS.

Conclusion

For disk-to-disk archiving, TimeOut ShrinkIt is the application of choice for all but the largest files. It is

slower than the stand-alone version of ShrinkIt, but its ability to work within AppleWorks makes its total throughput faster than the stand-alone version of ShrinkIt for all but the largest files.

For on-the-fly archiving, nothing matches Shrink Desk. Although compressing large files takes some time, the program de-compresses files quickly and saves almost a dozen steps in the file archiving process.

Taken together, the two TimeOut compression utilities that form the core of ShrinkIt Plus are a valuable addition to any AppleWorks user's collection of TimeOut utilities. This is particularly true for users who do substantial amounts of telecommunicating or whose disks are bulging at the seams. ■

[Howard Katz is a medical insurance specialist from Batavia, Illinois. He can be reached as "Howard Katz" on NAUG's Electronic Forum or as "h.katz@genie.geis.com" on the Internet.]

[Quality Computers, 20200 Nine Mile Road, Saint Clair Shores, Michigan 48080; (800)777-3642; Fax: (810) 774-2698.]

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Late News for AppleWorks Users

AppleWorks GS 2.0 Project Terminated

Quality Computers recently discontinued its plans to upgrade AppleWorks GS, the powerful integrated program for Apple IIGS computers. Our sources at Quality indicate that the source code for AppleWorks GS was in such disarray and so poorly documented that even the most accomplished Apple IIGS developers could not understand the code underlying the program.

Quality has refunded the payments sent in by Apple IIGS owners who ordered the AppleWorks GS 2.0 upgrade.

Timeworks Closes

Another software company that got its start with the Apple II failed in its attempt to transition to the Macintosh and Windows platforms and closed its doors.

According to a recent article in MacWeek, Timeworks, the developers of Publish-It!, recently went out of business. As many NAUG members know, Publish-It! was the most popular page layout program ever released for the Apple II; the program went through four major iterations over its eight year history. According to MacWeek, Lance Lewis, the author of Publish-It! and the President of Foton Software Development in Phoenix, once again owns the rights to the program. Some copies of Publish-It! remain in the retail channel, but the company has no plans to re-release or support the program.

NAUG members who use Publish-It! can still get technical support for the program from NAUG's Members Helping Members volunteers and on the Electronic Forum. ■



Remember to notify **NAUG** if you change your address. Do not rely on the post office to forward your mail; you may miss some issues. Send address changes to **NAUG**; Box 87453; Canton, MI 48187.

A Spell Checker Patch for AW 4

by Daniel Sczygelski

After a few weeks of using AppleWorks 4, it is hard to imagine doing without the new features that Randy Brandt and Dan Verkade added to the program. But like many power users, I miss the patches that I used to customize my earlier versions of AppleWorks.

One of the patches I missed most was the spell checker modification that the AppleWorks Companion made to AppleWorks 3.0. That patch modified the spell checker so it displayed more choices when you asked for spelling suggestions.

Of course, good spellers do not want long lists of suggested spellings. But people like me need all the help we can get; I am often so far off in my spelling that AppleWorks has no clue what I really meant when I typed my “Sczygelski-ized” spelling of a word.

So here is a patch that “loosens” the search method used by AppleWorks 4.x when it looks for words. AppleWorks makes some strange suggestions after you install the patch, but I can overlook those choices if it helps me find the word I need.

The only file you will modify is SEG.WP, so you can reverse the patch by copying an unmodified SEG.WP from your original AppleWorks disk if you change your mind about using the patch.

I will assume that you have Block Warden or the ZAP block editor from Prosel or Prosel-16, but you can install this patch with any block editor or from BASIC if you are talented.

Follow these steps:

1. Make a copy of your AppleWorks disk or of the AW4 directory on your hard drive. Install the patch on a copy of the program; never on your original AppleWorks disks.
2. Launch Block Warden, type an “F”, and enter the pathname to the file SEG.WP.

3. Enter (E)dit mode.
4. Use Control-S to search for the string \$1D 41 72 65 20. (You should find it at relative block 80, byte \$0009F1E.) [Ed: On AppleWorks 4.3 we found this string at relative block 80, byte \$0009F26.]
5. Edit the bytes starting at 1D to the following:

04 51 75 69 74 A2 03 C9 06 B0
06 CA C9 04 B0 01 CA 60 76 31
2E 30 13 53 74 61 6E 64 61
6. (W)rite the modified block back to the disk.
7. Use Control-S to search for \$A2 01 C9 04 B0 01 CA. (You should find it at relative block 99, byte \$000C410.) [Ed: On AppleWorks 4.3 we found this string at relative block 99, byte \$000C418.]
8. Change those bytes to 20 0F 80 EA EA EA EA
9. Press the Escape Key to switch back to Read/Write mode. Then press “W” to write the block back to disk.
10. Press the Return Key, the letter “Y”, Apple-Q, and the letter “Y” again to save your changes and quit the program.

Now launch AppleWorks, and spell check some documents. See if you like the changes. If AppleWorks suggests too many words, repeat steps # 2-6 but change the “03” in step #5 to “02”. AppleWorks will make fewer suggestions. I have not tried any other values for this entry, but my guess is that a “04” would give you even more suggestions.

Modified or not, I hope you enjoy AppleWorks 4. It sure beats anything else I have used on a Macintosh or PC.

[Daniel Sczygelski, an Instructor in the Laser Technology Department at North Central Technical College, is President of the Wausau (WI) Area Apple Users Group.]

Inexpensive Hard Drive Backup

by Howard Katz

How often do you back up your hard drive? If you're like me, you put off this task because doing the "floppy shuffle" is tedious and time consuming. But now I've discovered an inexpensive, easy way to back up a hard drive on any SCSI-card equipped Apple IIe or IIgs computer.

The answer is the Verbatim removable SCSI drive sold by Memory Plus Distributors for \$79 plus shipping (see *Figure 1*). These units use a proprietary 20-megabyte cartridge that looks like an oversized 3.5-inch floppy disk.

You use a SCSI cable to daisy-chain the unit to your existing hard drive, format the disk with a SCSI utility, and back up your hard drive onto the removeable media.

I use TimeOut Volume Backup from Office Productivity Software's DiskTools disk to make my backups. [Ed: A favorable review of DiskTools appeared in the June 1992 issue of the *AppleWorks Forum*.] Backing up a hard drive with more than six megabytes of data takes about 25 minutes. There is no disk swapping, so the backup can proceed unattended.

At \$79, the Verbatim drive is inexpensive and convenient, but has two shortcomings. First, it is slower than a standard hard drive and is not a satisfactory replacement for your original drive. Second, additional disk cartridges are relatively expensive and are not available from retail sources. (Memory Plus Distributors has a limited supply of used disks for \$25 each and new disks for \$50. Data Technology sells 3-packs for \$178.95. Pacific Computer Supplies sells a 3-pack for \$171.)

The Verbatim drive, which contains its own power supply and SCSI ID selector, comes with one disk

Figure 1: Verbatim Removable SCSI Drive



cartridge, a SCSI 50-25 pin cable, and a SCSI terminator. You need to buy a 50 pin-to-50 pin SCSI cable to connect the drive to an existing SCSI chain so you can use the drive for backups.

There are no instructions, but setting up the unit and formatting the disk should be easy for anyone familiar with SCSI drives.

[Memory Plus Distributors, 7902 E. Pierce Street, Scottsdale, Arizona 85257; (602) 820-8819 Fax: (602) 968-3211. You can reach Fred Cortazzo, the owner of Memory Plus, on NAUG's BBS.]

[Data Technology, 1515 Centre Pointe Drive, Milpitas, California 95035; (408) 942-4024.]

[Pacific Computer Supplies (800) 521-9604.]

[DiskTools costs \$49.95 from Office Productivity Software, Box 2132, LaGrange, Georgia 30241; (706) 884-2559.]

How to Avoid AppleWorks 4 Crashes on IIGs Systems

by Dan Crutcher

Many AppleWorks 4 users report that the program crashes when they launch AppleWorks 4 from the Finder.

The usual advice is to disable the macros, which conflict with the “interrupts” used by many GS/OS programs (including CDevs and DAs). Alternatively, you can boot into ProDOS-8 and then launch AppleWorks 4. But you should not have to disable macros or boot into ProDOS-8 to use AppleWorks.

A better solution is to boot into GS/OS and launch AppleWorks 4 from ProSel-16. For some unknown reason, AppleWorks 4 seems to run reliably from ProSel-16, although it crashes when launched from the Finder. Dozens of AppleWorks 4 users have reported this phenomenon and I can confirm that it works for me.

What's the Problem?

The problem with AppleWorks 4 and GS/OS interrupts is an UltraMacros conflict. AppleWorks 4 by itself runs fine from GS/OS and from any launcher.

Randy Brandt is aware of the problem that macros have with interrupts, so he designed AppleWorks 4 to check for the presence of an AppleTalk network (AppleTalk relies heavily on interrupts). If you launch AppleWorks 4 on a system connected to an active AppleTalk network, AppleWorks 4 automatically disables UltraMacros. So even if you boot into GS/OS and launch AppleWorks 4 from ProSel-16, (which eliminates the problems with the interrupts) you still will not have access to UltraMacros if you use AppleTalk on your system. If you try to

Figure 1: Patching APLWORKS.SYSTEM

```
Block: $0032 (50)      Volume name: APPLEWORKS      Friday      30-Sep-94 10:30
Prefix: /APPLEWORKS/
Following: APLWORKS.SYSTEM, Type SYS, Rel block 11, Byte $00142B
(c) *      00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F      Edit mode
1988
| 000: 32 85 0E AD E9 32 85 0F 20 FD 11 20 65 24 AD 7A 2..-12.. ). e$-z
b | 010: 03 D0 05 8D 11 0F F0 03 20 BE 31 20 47 25 A9 60 .P....p. >1 G%)\
B y | 020: 8D C4 B5 20 00 BF 42 63 24 B0 05 96 96 0A D0 0A .D5 .?Bc0.n..P.
L | 030: AD FF 0F 29 20 F0 03 20 4D 25 AD B5 0A F0 03 20 -. ) p. M%-5.p.
O G | 040: 41 25 20 05 D0 FE 0E 00 A7 AD 00 A7 29 01 F0 03 A% .P~..(-.)p.
C l | 050: 20 53 25 20 4D 2B A9 00 8D 05 0E A9 01 4C 02 80 S% M+ )....).L..
K e | 060: 00 D4 AA 00 02 20 11 D0 A3 11 00 A7 00 03 20 11 .T*...P#...
n | 070: D0 9E 0A 00 A7 00 03 20 11 D0 50 0A BF 2A 8E 00 P.... .PP.?*..
W | 080: A9 00 8D 00 A7 20 39 16 01 A7 00 A7 4A 00 20 11 ).../ 9.../J. .
A B | 090: D0 BB 0C 00 A7 00 04 20 11 D0 BD 0C 00 A7 00 04 P;... .P=...
R r | 0A0: 20 11 D0 B7 0C 00 A7 00 04 20 11 D0 B9 0C 00 A7 .P7... .P9./
D e | 0B0: 00 04 20 11 D0 22 10 00 A7 4B 00 20 11 D0 9B 0A .. .P" ...K. .P.
E d | 0C0: 00 A7 27 00 AD E0 0F C9 41 D0 0C 20 11 D0 B4 11 '...- .IAP. .P4.
N o | 0D0: 00 93 00 08 4C E0 24 20 39 16 7C 1A F5 24 4C 00 ....L* 9..u$L.
n | 0E0: AD A2 11 D0 0F A9 A2 8D 03 B5 A9 00 8D 04 B5 A9 -.P.)...5)...5)
| 0F0: 60 8D 05 B5 60 8D 55 C0 20 11 D0 BD 0C 00 04 00 \..5'.U$ .P=...
```

Arrows move cursor, ESC for command mode, \ = flip, ^F = find (RTN to cancel),
^S = search, ^X = cancel chg, TAB = toggle hex/ascii, d for hi bit.

turn on UltraMacros from the Standard Settings Menu, AppleWorks 4 displays the message “UltraMacros cannot be used with AppleTalk”.

What's the Solution?

The solution is to patch AppleWorks so you can run UltraMacros with AppleTalk active. Then launch AppleWorks from ProSel-16 instead of the Finder.

Installing the patch involves using a disk editor (such as Block Warden or Zap) to change offset +142B in APLWORKS.SYSTEM from EE to 2C.

Installing the Patch

Here are the steps that install the patch in AppleWorks 4.01 through 4.3. Once you install the patch, you can use UltraMacros while connected to an AppleTalk network.

I will assume that you have ProSel-8's Block Warden or ProSel-16's Zap utility. These programs are

Advanced Techniques...

functionally identical and the following instructions apply to both programs. Make certain that you apply the patch to a copy of AppleWorks, not to the original disk.

When the instructions say "Enter" something, type the text string and press the Return Key. Do not type the quotation marks in these instructions.

Follow these steps to patch AppleWorks:

1. If you run AppleWorks from a floppy disk, insert the disk that contains the file APLWORKS.SYSTEM in a drive.
2. Launch Block Warden or Zap.
3. Press "P" to set the Prefix. Type the prefix to your "APLWORKS.SYSTEM" file. For example, type "/APPLEWORKS" if you use a copy of the original floppy disk or a prefix such as "/HD/PROGS/AW4" if you use a hard drive.
4. Press "F" to "Follow" a single file. Then enter "APLWORKS.SYSTEM".
5. Press "E" to switch to Edit mode.
6. Press Control-S to Search for a string. Then enter "\$EE96". *[Ed: Remember to type the dollar sign at the beginning of this string.]*

If the search fails, you have an already-patched version of AppleWorks 4. Skip to step #10. Otherwise, your screen will highlight "EE" at relative byte \$00142B (see *Figure 1*).
7. Enter "2C" but do not press the Return Key. Nothing will happen when you press the "2", but Block Warden or Zap will enter 2C in byte \$00142B after you press the "C".
8. Press the Escape Key to switch back to R/W (Read/Write) mode.
9. Press "W" to write the changed byte to disk.
10. Press the Return Key in response to the "Write block # \$xxxx" prompt. Press "Y" in response to the "Ok to write block \$xxxx..." prompt.
11. Press Apple-Q to quit and "Y" to confirm.

If +142B is *not* EE in your version, search for \$EE960A in that approximate area. Of course, you can always reverse this patch by changing the same byte back to EE.

I have been running AppleWorks 4/UltraMacros at work and home from GS/OS with AppleTalk active for several months with this patch applied and it has worked well, as long as I launch AppleWorks 4 from ProSel-16.

[Dan Crutcher is a magazine publisher from Louisville, Kentucky. He is the author of Check-Works, TCXpress, TXC/NAUG, and other Ultra-Macros-based programs.]

A BBS Update

Telephone gremlins continue to haunt the Electronic Forum, NAUG's free AppleWorks bulletin board service. In September and early October we experienced a number of service outages.

The best strategy for users calling the board is to try the BBS's main number at (615) 359-8238. If you are unsuccessful on the main line, try one of the secondary numbers: (615) 359-8140 or (615) 359-8270.

We take the modems off-line as soon as we learn about a communications problem. When the modems are off-line you receive a busy signal, no answer, or an operator intercept rather than paying a long distance charge.

We apologize for the inconvenience; we are continuing to work with the telephone company to try to resolve these problems.

Guidelines for Contributors

The **AppleWorks Forum** consists entirely of materials contributed by NAUG members. The **AppleWorks Forum** publishes three types of member contributions:

1. Letters: A letter, written to the Editor, that asks or answers a question, shares an idea, or makes a statement.
2. Notes: A note is a brief article or Quick Tip about a single theme.
3. Articles: Articles are generally five to ten double-spaced pages long. Members whose articles are published in the **AppleWorks Forum**, receive a one-year extension to their NAUG membership.

How to Submit Articles to the AppleWorks Forum

1. Send paper copies of letters.
2. If possible, send both paper and disk copies of notes and articles. If you do not submit a printed copy, please include a note describing what is on the disk. All submissions become the property of NAUG.
3. All submissions to the **AppleWorks Forum** should include your name, address, and telephone number. We will cite you as the author of the letter, note, or article, but will not include your address or telephone number unless you specifically request that those be published. The Editor will make any necessary editorial changes to your submission. Mail your submission to: Cathleen Merritt, Editor; **AppleWorks Forum**, Box 87453; Canton, MI 48187.

APPLE II GAMES

\$9⁹⁵ EA 3 FOR \$19⁹⁵

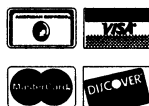
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PAC-MAN

The refinements of dot chomping lead to high scores as hungry Pac-Man avoids ambush by voracious goblins. When Pac-Man gulps an energy dot he can turn the tables and eat everything in sight... that includes yummy bonus nuggets, sending scores into the thousands. But goblins won't allow themselves to be gobbled for long; and soon become their old selves, fast and sneaky, to try to put an end to Pac-Man's three lives.



STARGATE

The entire universe is your enemy as you struggle to rescue humanoids stranded on the planet surface. To take them into a Warp you must reach the Stargate. But getting there isn't easy. Yllecian space guppies, Dynamos, Space hums, Phreds, Big reds, Munchies, landers, Baiters, Pods and Swarmers block the way spewing death and destruction. Will your cloaking device protect you from the threat within... Mutant humanoids?



ROBOTRON: 2084

It's the year 2084, and robots are turning against their masters. Saved by a genetic accident, only you can resist their mutant re-programming and defend humanity. Grunts close in. The Brains launch missiles. Tanks, Sheroids and Electrodes spell death. And then there's the Hulk—immune to your laser. Your mission is to rescue, evade and destroy. Good Luck.

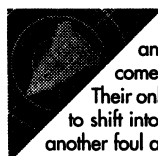


JUNGLE HUNT



Savage cannibals have kidnapped your traveling companion, and you must rescue her before they turn her into stew! In the deep jungle forest, you jump from rope to rope. Then you brave a crocodile-infested river and a landslide of huge boulders. You reach the cannibal's campsite just in time—your sweetie hangs suspended over a hot cauldron of boiling gool!

DEFENDER



Landers, Bombers, Baiters, Pods, and Swarmers. The alien attack has come, and defeat at the hands of crazed invaders threatens the humanoids. Their only hope is the spaceship, Defender. Armed with smart bombs and able to shift into hyperspace, Defender evens the score only to become the object of another foul attack: kidnapped humanoids transformed into killer mutants.

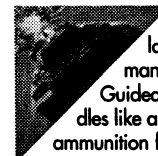


MOON PATROL

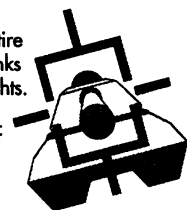


Applications being accepted for replacement gunners in high-risk job. Hostile environment. Road conditions nonexistent due to meteor and crater hazards. Small native population of killer plants also reported. Quick reflexes, marksmanship and driving skill a must. Bonuses for UFO's and enemy tanks. Recognition for valor. Volunteers only.

BATTLEZONE



You have full directional control through an entire landscape filled with hazards and targets. Tanks maneuver around pyramids to get you in their sights. Guided missiles hurtle toward you. But your vehicle handles like a dream on 0-gravity glide, and you've got plenty of ammunition for saucer hunting. What could go wrong?



CENTIPEDE



An insidious invasion of multiplying insects (centipedes, jumping spiders, poisonous scorpions, and frenzied fleas) pose different perils to the mushroom patch. You must repeatedly blast enraged creepers and stubborn obstacles or lose your enchanted fungus. Remember to listen for distinctive sounds of the attacking bugs; and watch out for blasted centipede segments, each one grows a new head.

GREMLINS

Applications being accepted for replacement gunners in high-risk job. Hostile environment. Road conditions nonexistent due to meteor and crater hazards. Small native population of killer lants also reported. Quick reflexes, marksmanship and diving skills a must. Bonuses for UFO's and enemy tanks. Recognition for valor. Volunteers only.



DIG DUG



Dodging and blasting Pookas, and dropping rocks on fire-breathing Fygars; Dig Dug burrows his way through a maze of subterranean paths. Ripe fruits and veggies, loaded with points are his passion. But the evil denizens of the underground pack a potentially lethal wallop, and can hide behind fruits. Even when Dig Dug kills them they may come back as Ghosts.

DONKEY KONG

You can feel an excitement tingle up and down your spine when you play Donkey Kong at home, just like at an arcade. Your joystick guides Mario, the fearless carpenter, up the girders and elevators as he attempts to rescue his sweetheart from the clutches of Donkey Kong. All the thrills of the arcade game.



GALAXIAN

You feel that spine-tingling exhilaration every time you play GALAXIAN in an arcade. Now the same sensation is yours at home.

Wave after wave of Drones, Emissaries, Hornets and Commanders come winging in from deep space. Skillfully you slide your ship right and left with your joystick, dodging their fire and blasting them out of the universe.



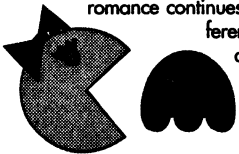
JOUST

In days of olde, when knights were bolde—they never saw anything like this! You don your helmet, hoist your lance and mount your ostrich to do battle with the evil Buzzard Riders in deep space! Pterodactyls to the right of you, alien eggs to the left—learn to fly so you won't die so very far from home.



MS. PAC-MAN

It was the love match of the century, PAC-MAN, star of the arcade, and his leading lady the unforgettable MS. PAC-MAN. Now their romance continues. You guide MS. PAC-MAN through four different mazes as she gobbles up dots, energy pills, fruit and pretzels. But watch out! The ghosts aren't far behind her. Can she escape them?



TRACK & FIELD

You've worked long and hard to make it this far. Now it's time for head-to-head competition in the 100 meter dash, long jump, javelin, 110 meter hurdles, hammer throw or high jump. You're out to beat the best times and distances on record. Included is a special arcade controller which gives you everything you need to break the world record in athletic competition.



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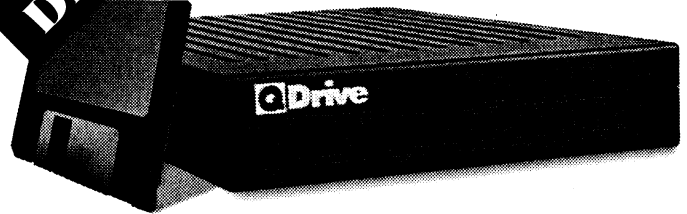
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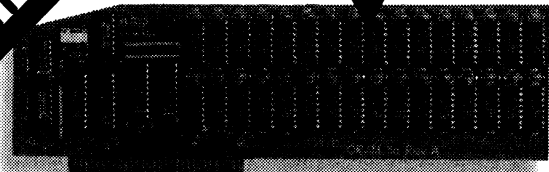
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MEMORY

1 MB. Ile \$99⁹⁵

4 MB. IIGS \$199⁹⁵



256K \$24⁹⁵

1 MB. \$59⁹⁵



MODEMS

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SOFTWARE

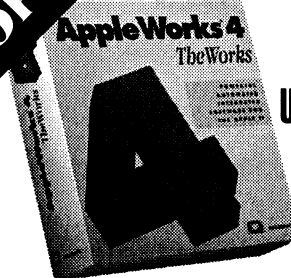
APPLEWORKS 4.0

UPGRADE FROM V.3.0

\$79⁹⁵

UPGRADE FROM EARLIER VERSION
OR ANY WORD PROCESSOR

\$99⁹⁵



Special Closeout Prices from NAUG

Here are the lowest prices you will ever find on popular templates, software, and accessories for AppleWorks and your Apple II:

Cynthia Field's Templates

Dr. Cynthia Field's popular templates for AppleWorks and AppleWorks GS were a great value when they sold for \$39.95. Now you can buy them for \$2.50 per disk; that's less than 25-cents per template! AppleWorks GS templates are on 3.5-inch disks; all others ship on 5.25-inch disks.

Productivity Pak I: Inventory Organizer, Desktop Publisher, Auto Mileage Log, Membership Organizer, Billing Statements, Mail-Merge Postcards, Checkbook Manager, Nutridata, Nutricalc, and Home Construction Calculator. Requires AppleWorks 3.0 or later.

Productivity Pak II: Family Tree, Videotape Library, Car Cost Comparison, Custom Calendars, Home Buyer's Guide, Living Will, Cookbook, Booklet Formatter, College Guide, and Income Tax Records. Requires AppleWorks 3.0 or later.

Home Organizer for AppleWorks GS: Address Labels, Credit Card Registry, Family and Friends File, Home Inventory Organizer, Insurance Policies Registry, Earned Interest Tracker, Medical Authorization Forms, Mortgage Cost Worksheet, Personal Balance Sheet, and Vacation Planner. Requires AppleWorks GS.

AppleWorks GS Productivity Pak I: Memo Pads, Membership Tracker, Name Badges, Merge Document Template, Auto Mileage Log, Resume Template, Nutridata, Checkbook, Personal Budget, Newsletter. Requires AppleWorks GS.

AppleWorks GS Productivity Pak II: Family Tree, Videotape Library, Car Cost Comparison, Custom Calendars, Home Buyer's Guide, Living Will, Cookbook, Booklet, College Guide, Income

Tax Record Keeper. Requires AppleWorks GS.

Publish-It Yourself: To-Do Forms, Card Designs, Cassette Labels, Gift Tags, Fold-Out Brochure, Disk Labels, Business Forms, Certificate Maker, Reminders, Newsletter Layout. Requires Publish-It!.

Ruth Witkin's Templates

This is your chance to buy Ruth Witkin's famous AppleWorks templates for \$2.50 per disk. That's more than a 93% discount from their original \$39.95 price! All templates come on 5.25-inch disks. Unless indicated otherwise, the templates work with any version of AppleWorks.

Success with AppleWorks I: Mail List, Price Quote, Quote Letter, Best Selling Price Calculator, Customer List, Checkbook Organizer, Loan Analyzer, Newsletter template, and Budget Planner, Expense Tracker.

Success with AppleWorks II: Car Loan Analyzer, Breakeven Analyzer, Dining Room Menu, Income Calculator, Credit Card Records, Rent or Buy a Home?, Resume Cover Letter, Three Across Labels, Cash Flow Tracker, and Net Worth Calculator.

Success with AppleWorks III: Car Cost Tracker, Living Expense Records, Return Address Labels, Wine List, Loan Analyzer, Retirement Savings Tracker, Credit Card Information, Handbook Template, Travel Expense Tracker.

Success with AppleWorks IV: Earned Interest Calculator, Business Statement Template, Resume Template, Employers Data, Employers Cover Letter, Retirement Planner, Business Startup Planner, Shopping List, Financial Function Calculator, Portfolio Tracker.

Success with AppleWorks V: Party Invitations, Expense Itemizer, Mortgage Comparison Calculator, Newsletter Layout, Club Membership Tracker,

Special Offers...

Retirement Budget Calculator, Stock Portfolio Tracker, Document Organizer, and Memo Merger.

Money Manager: Easy Budget, Cashflow Manager, Networth Calculator, TaxTracker, Loan Analyzer, and Travel Expense Organizer. Requires AppleWorks 3.0 or later.

Other Closeout Specials

AppleWorks 4 Command Cards: These 3.5-inch by 8-inch two-sided cards make it easy to remember the new keystroke commands supported by AppleWorks 4.x. Package of 20. List: \$9.95. NAUG closeout: \$1.50.

The Manager: Brings the power of the Macintosh Multi-Finder to your Apple IIGS. Lets you switch between 16-bit applications with a single keystroke. A favorable review of The Manager appeared in the April 1993 issue of the *AppleWorks Forum*. Requires an Apple IIGS running System 6.0 or later, at least two megabytes of RAM (four megabytes recommended) and a 3.5-inch disk drive or hard drive. From Seven Hills Software. List: \$69.95; NAUG closeout: \$29.95.

Shipping

All items are covered by NAUG's promise of "satisfaction guaranteed or your money back". NAUG accepts Visa and MasterCard. All prices are in U.S. Dollars. Add \$3.50 s/h *per order* for orders shipped within the U.S.A.; international shipping additional.

Quantities are limited; order early to ensure that we can fill your order. All orders filled on a first come, first served basis. Credit card orders only. Telephone and fax orders recommended at these special closeout prices.

[NAUG, Box 87453, Canton, Michigan 48187; (313) 454-1115; Fax: (313) 454-1965.]

The **National AppleWorks Users Group (NAUG)** is an association dedicated to supporting AppleWorks users. NAUG provides technical support and information about AppleWorks and enhancements to that program. Our primary means of communicating with members is through the monthly newsletter entitled the **AppleWorks Forum**.

Public Domain Update

New Disks in the NAUG Library

NAUG HOME.04

NAUG's new HOME.04 disk contains 14 easy-to-use AppleWorks templates to help automate your home management chores. The templates include a simple appointment scheduler, a "Books I've Read and Want to Read" record keeper, a club membership roster organizer, a credit card registry, a small investment club stock tracker, a college funding calculator, a medical expense and reimbursement tracker, a stock analyzer, an ASCII code converter, a net worth calculator, a rental income tracker, a home sales/purchase calculator, a stock option tracker, and a checkbook organizer.

The AppleWorks GS version of this disk also includes coin collection, valuables, and clothing registries, a banquet and party checklist, first and second mortgage qualifier analyzers, a kitchen measure converter, loan payment and personal net worth calculators, and a name and address Rolodex.

NAUG BUSINESS.02

NAUG's new BUSINESS.02 disk contains 17 useful templates to help you manage a small to medium-size business. Templates on the disk include advertising and direct mail cost analyzers, a break even analyzer, a business income tracker, a cash-flow analyzer, a depreciation calculator, weekly and monthly expense trackers, a job cost estimator, a job log, a queuing model analyzer (Answers: "Is it cost-effective to add more sales staff to your work force?"), a retail sales tracker, a sales analyzer, a sales forecaster, and a seasonal sales predictor.

The AppleWorks GS version of the BUSINESS.02 disk also includes a balance sheet calculator, a personnel manager, and a solids analyzer.

How to Get Disks

The AppleWorks versions of these disks are available in 5.25-inch (\$4) and 3.5-inch (\$6) formats. The AppleWorks GS versions are on 3.5-inch disks (\$6). Add \$2 s/h *per order* to all prices. NAUG accepts Visa and MasterCard. Order from NAUG Public Domain Library, Box 87453, Canton, Michigan 48187; (313) 454-1115; Fax: (313) 454-1965.

Special Apple II Offers from GENie

Now that America Online has discontinued its support for Apple II users, GENie and CompuServe have become the major online services supporting the Apple II community.

The Apple II RoundTables on GENie recently announced a special GENie sign-up offer for former Apple II America Online customers, special pricing on Apple II telecommunications programs, and the release of new versions of their Apple IIGS-specific offline navigators for GENie.

Sign Up Offer: Until December 31, former America Online Apple II users can receive a \$50 online credit on GENie. Users who sign up for this offer pay the standard \$8.95/month fee, which includes four hours of connect time. They receive a \$50 credit that can be used anywhere and at any time on the GENie system.

Follow these steps to join GENie and receive the \$50 credit (Have a major credit card ready when you call.):

1. Set your communications software for half-duplex (local echo) at 300, 1200, or 2400 baud. The recommended communications parameters are 8 data bits, no parity, and 1 stop bit.
2. Dial GENie toll-free in the U.S. at (800) 638-8369 (or in Canada at (800) 387-8330). Upon connection, type `HHH`. (You must type `HHH` every time you connect to GENie.)
3. At the `U#`= prompt, type `JOINGENIE` and press the Return Key.
4. At the offer code prompt enter `DHG528` to get this special offer.

Telecommunications Software Discounts: Apple II users who sign up for GENie can also get special discounts on three popular Apple II telecommunications programs.

- Spectrum: \$65 + \$3.50 s/h.
- Talk Is Cheap: \$20 including s/h in the U.S.

- ProTerm: \$45 + \$5 s/h which includes both GEM and Co-Pilot (see below).

To order, send GENie mail to SYNDICOMM. Specify the package you want to order. SYNDICOMM will forward your mail to the appropriate company, which will ask you for further information.

Offline Navigators: The Apple II Roundtable recently released two offline "navigators" for GENie; CoPilot v2.5 for the Apple IIGS and GEM 4.22 for 8-bit Apple II systems. Both navigators let you do all your work off-line, which saves you time and money. The programs then use Spectrum, Talk Is Cheap, or ProTerm to transfer your data to GENie.

CoPilot is a stand-alone program with its own editor. GEM is an AppleWorks add-on that lets you use AppleWorks 3.0 or 4.x to read, create, and edit your mail and messages. CoPilot and GEM are freeware; you can download the programs after you join GENie.

File ID Registry: Finally, the Apple II Roundtables on GENie recently assumed responsibility for assigning all official file types, codes, and IDs for the Apple II from Apple Computer. Apple II developers should now send their requests for assignments to the Apple II RoundTables at A2PRO@genie.geis.com.

[GENie, c/o GE Information Services, P.O. Box 6403, Rockville, MD 20849; (800) 638-9636; e-mail: feedback@genie.geis.com.]

[For more information about these Apple II GENie sign up and telecomm program offers, e-mail a2.help@genie.geis.com. For more information about the Apple II technical support provided by the Apple II RoundTables, e-mail a2pro.help@genie.geis.com.]

NAUG's Complete Member Helping Members Roster

1995
Roster!

How to Use this List

Here is a complete roster of NAUG's Members Helping Members volunteers. This page lists the numbers that correspond to each area of interest. The following pages list the city and phone number of each member-volunteer and the products he or she supports.

Save this list. It is valid through 1995.

AppleWorks Versions

- 1 - AppleWorks 1.x
- 2 - AppleWorks 2.x
- 3 - AppleWorks 3.x
- 4 - AppleWorks 4.x

AppleWorks Modules

- 5 - Word Processor
- 6 - Data Base
- 7 - Spreadsheet
- 8 - Integration between modules
- 9 - Mail Merge
- 10 - AppleWorks Network
- 11 - Linking Files

Utilities

- 12 - ProDOS
- 13 - Bag of Tricks
- 14 - Change-A-File
- 15 - Copy II+
- 16 - Deliverance
- 17 - Disk/File Recovery
- 18 - Easy Drive
- 19 - Express
- 20 - File Conversion
- 21 - Harmonie
- 22 - Independence
- 23 - LockOut
- 24 - ProSel
- 25 - RepairWorks
- 26 - Ressurrection
- 27 - Salvation
- 28 - Wings

Apple IIgs

- 29 - Hardware
- 30 - AppleWorks gs
- 31 - Desk Accessories
- 32 - Diversi Key
- 33 - Express
- 34 - GraphicWriter III
- 35 - GS/OS 5.x
- 36 - GS/OS 6.x

- 37 - HyperCard IIGS

- 38 - HyperStudio

- 39 - SoftSwitch

- 40 - Switch-It!

- 41 - The Manager

AppleWorks Enhancements

- 42 - AfterWork

- 43 - DeskTools

- 44 - FileMaster

- 45 - Grammar

- 46 - Graph

- 47 - Inits

- 48 - Outliner

- 49 - TimeOut Paint

- 50 - PowerPack

- 51 - QuickSpell

- 52 - ReportWriter

- 53 - SideSpread

- 54 - SpreadTools

- 55 - SuperFonts

- 56 - SuperForms

- 57 - TeleComm

- 58 - TextTools

- 59 - Thesaurus

- 60 - TimeOut Shrink-It

- 61 - UltraMacros 3.x

- 62 - UltraMacros 4.x

Other Software Add-Ons

- 63 - 1040Works

- 64 - 1040Works Tax Planner

- 65 - Barrows' Utilities

- 66 - Cross-Works

- 67 - DB.Link

- 68 - EuroWorks

- 69 - Family Tree

- 70 - InWords

- 71 - lastPATCH

- 72 - Magic File Cabinet

- 73 - RAMUP

- 74 - Randy's Free Patcher

- 75 - StoryWorks

- 76 - SuperPatch

- 77 - TestMaker

- 78 - The Grading Machine

Miscellaneous

- 79 - BASIC

- 80 - Business Applications

- 81 - Church Applications

- 82 - Disabilities

- 83 - DIF Files

- 84 - Educational Applications

- 85 - Ed. Administrative Applications

- 86 - Foreign Languages

- 87 - Genealogy

- 88 - Games

- 89 - Hobbies: Photography / Radio

- 90 - Math/Statistics

- 91 - Personal Finances

- 92 - SuperWorks

- 93 - Transfer Apple II ↔ Macintosh

- 94 - Transfer Apple II ↔ IBM

Hardware: CPU and Memory

- 95 - Apple II+

- 96 - Apple IIc; IIc Plus

- 97 - Apple IIe

- 98 - Apple IIgs

- 99 - Apple III

- 100 - Apple Memory Cards

- 101 - Checkmate Cards

- 102 - Laser Computers

- 103 - Macintosh Computers

- 104 - MS-DOS Computers

- 105 - No Slot Clock

- 106 - RAM Disks

- 107 - Memory Cards IIe

- 108 - Memory Cards IIc

- 109 - Memory Cards IIgs

- 110 - TransWarp IIe

- 111 - TransWarp IIgs

- 112 - Zip Chip

- 113 - Zip GSX

Hardware: Peripherals

- 114 - 3.5-inch Disks

- 115 - Apple IIe Card and Software

- 116 - Cables

- 117 - CD-ROMs

- 118 - Floppy Disks

- 119 - Hard Disk Drives

- 120 - Keyboards

- 121 - Monitors

- 122 - PC Transporter

- 123 - Power Supplies / Chips / Boards

- 124 - Print Buffers

- 125 - RamFAST Card

- 126 - Repairs

- 127 - Scanners

- 128 - Tape Backups

- 129 - Vulcan Drives

Printers

- 130 - Custom Printing Effects

- 131 - Epson Printers

- 132 - HP Inkjet Printers

- 133 - HP Laserjet Printers

- 134 - ImageWriter Printers

- 135 - Laser Printers

- 136 - Panasonic Printers

- 137 - Printer and Interface Cards

Communications

- 138 - NAUG's BBS

- 139 - America Online

- 140 - CompuServe

- 141 - GEnie

- 142 - AppleLink

- 143 - AppleShare

- 144 - AppleTalk

- 145 - EtherNet

- 146 - Internet

- 147 - Modems

- 148 - Networks - Other

- 149 - Point-to-Point

- 150 - ProTerm

- 151 - Shrink-It

- 152 - Talk is Cheap

Desktop Publishing

- 153 - AppleWorks gs

- 154 - Clip-Art / Graphics

- 155 - Fonts

- 156 - Newsletter Production

- 157 - Page Layout

- 158 - Pointless

- 159 - Print Shop

- 160 - Publish-it

Financial Software

- 161 - AlphaCheck

- 162 - Dollars & Sense

- 163 - CheckWorks

- 164 - Managing Your Money

- 165 - Quicken

Members Helping Members...

ALASKA

Anchorage	Ken Duncan Home: 907-274-5809	1-3, 5, 6, 12, 15, 16, 18, 29, 31, 34, 88, 96-98, 100, 103, 104, 107-109, 111, 113-116, 118-126, 129, 134, 137, 141, 150, 158, 159, 164, 165
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ARIZONA

Tucson	Clay Evitts Home: 602-885-9789 Work: 602-296-5491	1-9, 12, 14, 15, 18, 20, 25, 26, 43-46, 48, 50-56, 58, 59, 61, 62, 66, 70-72, 74, 80, 94, 96, 97, 101, 104-108, 110, 112, 114, 118, 119, 123, 130, 137, 150, 159, 160
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CALIFORNIA

Hayward	James Davis Home: 510-489-7024	2, 3, 5-8, 12, 14, 15, 17, 18, 24-26, 43-46, 48-59, 61, 63, 64, 79, 83, 95, 97, 104, 106, 107, 112, 114, 116, 118-121, 123, 126, 128, 131, 137, 139, 145-148, 150, 151, 164
San Anselmo	Alan Kahn Home: 415-457-9827	4-9, 59, 62, 63, 80, 97, 114, 131
San Diego	Robert Rowe Home: 619-277-3227	3-6, 9, 11, 12, 15, 53, 60-62, 71, 74, 76, 79, 88, 113, 151, 155, 158, 159
San Rafael	Will Nelken Home: 415-459-0845 Work: 415-456-1798	1-9, 12, 14, 24, 26, 42-51, 53-56, 58-62, 63, 65, 66, 71, 74, 76, 80, 81, 94, 97, 98, 104, 119, 125, 132, 134, 141, 151, 152, 159

COLORADO

Ft. Collins	William Roemer Home: 303-282-0449	3-5, 12, 15, 16, 19, 21, 22, 24, 27, 28, 30, 31, 33, 36, 44, 45, 51, 61, 62, 63, 79, 89, 98, 109, 113, 114, 119, 120, 125, 127, 131, 132, 146, 147, 150, 151, 153, 155, 157, 158, 165
Littleton	Lyle Graff Home: 303-794-5970 Work: 303-977-4557	3-8, 20, 24, 29, 30, 36, 41, 44, 46, 48, 52, 53, 55, 59, 63, 66, 74, 90, 93, 94, 97, 98, 103, 113, 116, 119, 125, 127, 134, 138-140, 146, 147, 150, 151, 153, 158
Morrison	Geoff Hollingsworth Home: 303-697-9277 Work: 303-760-4345 pager	2-8, 12, 15, 42, 46, 48, 53, 55, 57, 84, 93, 96, 97, 100, 103, 105, 107, 108, 112, 114, 116-118, 126, 134, 135, 139, 146, 147

IDAHO

Lewiston	Donald Campbell Home: 208-743-9639 Work: 208-743-8589	2-9, 15, 44, 55, 56, 61, 71, 76, 97, 100, 115, 134, 160
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IOWA

Ft. Maditon	Keith King Home: 319-372-9521 Work: 319-753-6561	1-3, 5-9, 12-15, 25, 43, 44, 46, 50, 53, 61, 97, 98, 102, 105, 107, 114, 118, 136, 138, 141, 152, 160, 165
Murray	Venita Escher Home: 515-447-2301 Work: 515-765-4818	1, 3, 5-8, 45, 53, 79-81

ILLINOIS

Batavia	Howard Katz Home: 708-879-5818	3-6, 14, 15, 18, 25, 42-45, 48, 50, 51, 58-60, 63, 70, 71, 74, 76, 97, 100, 106, 107, 112, 114, 118, 119, 133, 138, 139, 151
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Members Helping Members...

ILLINOIS

Hinsdale	William Davis Home: 708-655-9142 Work: 708-887-1730 x. 335	1-3, 5, 6, 8, 12, 14, 15, 20, 29, 31, 38, 55, 79, 84, 86, 93, 94, 97, 98, 102-104, 111, 118, 119, 122, 138, 139, 141, 147, 150, 151
St. Charles	Joe Walters Home: 708-377-3313	4-8, 11-13, 15, 19, 20, 22, 24, 25, 34, 36, 38, 41, 44, 46, 52, 62, 79, 113, 132, 141, 146, 150, 151, 156, 157

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Louisville	Dan Crutcher Home: 502-895-2720 Work: 502-625-0100	2-8, 12, 21, 24, 29-31, 34-36, 38, 41, 44, 48, 57, 59-62, 74, 93, 94, 97, 98, 103, 104, 106, 109, 113, 114, 119, 122, 125, 128, 131, 133, 135, 137, 138, 141, 143, 144, 146, 147, 150, 151, 155, 157, 158, 163
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Haughton	David Adkins Home: 318-949-3551 Work: 318-949-2429	3, 5-9, 12, 15, 44, 50, 51, 54, 59, 61, 79, 92, 97, 98, 103, 104, 115, 116, 129, 132, 134
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MARYLAND

Bowie	John Engberg Home: 301-262-9347	3-5, 12, 24, 29, 31, 36, 55, 71, 94, 98, 104, 113, 114, 118, 119, 125, 134, 151, 155, 158, 159
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MICHIGAN

Wyoming	James Clark Home: 616-243-8361 Work: 616-243-8361	1-12, 15, 24, 25, 44, 45, 47, 53, 55, 61, 62, 74, 76, 79, 97, 106, 107, 114, 116, 118, 120, 121, 134, 138, 147, 149-151, 159, 160
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MONTANA

Shepherd	Steve Bernbaum Home: 406-373-6393	1-3, 5-9, 11-13, 15, 20, 21, 24, 29, 31, 36, 41, 44, 46-55, 58-61, 79, 97, 98, 100, 106, 107, 109, 113, 114, 116, 118-121, 123-125, 130, 134, 137, 139, 151, 152, 155-158, 160
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NORTH CAROLINA

Greensboro	Jim Llewellyn Home: 910-282-1759	15, 24, 36, 53, 98, 139, 151, 164
Whiteville	Willard Seehorn Home: 910-642-9722 Work: 910-642-6096	3, 5-7, 12, 15, 51, 55, 94, 160

NEW JERSEY

Marlton	Mitchell Bernstein Home: 609-596-7706	1-3, 5-9, 15, 44, 49, 53, 55, 56, 61, 84, 85, 90, 93, 96, 98, 130, 134, 159
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NEW MEXICO

Las Cruces	Paul Edwards Home: 505-525-2708	3-9, 11, 12, 15, 20, 24, 46, 48, 50, 53, 58, 61-64, 80, 81, 86, 91, 97, 104, 105, 107, 110, 112, 114, 118, 119, 123, 129, 134, 137, 138, 151, 159, 160
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NEVADA

Sparks	Keith Johnson Home: 702-626-2543 Work: 702-784-4812	2-9, 11-13, 15, 20, 43, 44, 46, 47, 50, 51, 53-55, 57-59, 61, 62, 71, 72, 76, 79, 93, 96, 97, 102, 103, 105-108, 112, 114, 116, 118-121, 129, 134, 135, 137, 139, 146, 147, 151
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NEW YORK

Buffalo	Peter Lisker Home: 716-884-3703 Work: 716-858-7155	2, 3, 5-9, 15, 25, 43-46, 48, 50, 53, 55, 80, 84, 97, 102, 103, 107, 114-118, 120, 121, 123, 126, 134-136, 144, 146
Hamburg	Gary Walters Home: 716-941-5442	3, 5-9, 12, 15, 17, 20, 24, 45, 53, 59, 61, 62, 88, 89, 96, 100, 106, 108, 112, 114, 118, 121, 124, 126, 130, 136, 140, 146-148, 154, 155, 160, 164, 165
Merrick	Betty Gordon Home: 516-223-8729 Work: 516-377-9307	3, 5-9, 12, 15, 20, 29, 30, 68, 79, 93, 94, 95, 97, 98, 100, 107, 114-116, 118, 120, 121, 123, 131, 133, 134, 144-147, 150, 153, 156, 157, 159, 160, 165
Ozone Park	Harold Miller Home: 718-641-5208 Work: 718-641-5208	2-7, 45, 51, 59, 61, 62, 73, 96, 108, 119, 131, 156, 159
Tonawanda	William Bates Home: 716-834-5428	1-9, 11, 12, 15, 20, 24, 25, 29, 53, 55, 79-82, 84, 85, 91, 93, 95-100, 103, 105-110, 112, 114-116, 119-121, 123, 126, 134, 137, 157, 159, 160, 165

OHIO

Cincinnati	Barry Austern Home: 513-793-0702 Work: 513-563-7638	3, 12, 29, 35, 36, 150
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OKLAHOMA

Oklahoma City	M. Coleman Hull Home: 405-722-2066 Work: 405-722-2066	2-6, 12-15, 17, 20, 24, 25, 42, 43, 47, 50, 58, 63, 71, 74, 76, 79, 82, 91, 97, 100, 105-107, 110, 112, 114, 115, 118, 119, 129, 134, 151, 156, 159-162, 165
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OREGON

Medford	Richard Millus Home: 503-772-9787	3-6, 9, 15, 16, 19, 21, 22, 24, 26-28, 29-31, 33-38, 41, 45, 59, 70, 71, 76, 84, 93, 98, 109, 111, 113, 114, 119-121, 125, 128, 129, 132-134, 139, 141, 153, 156-158
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PENNSYLVANIA

Eagleville	Hal Shapiro Home: 610-630-8936	1-6, 8, 9, 20, 24, 29, 30, 44, 51, 55, 59, 61, 62, 66, 74, 76, 92-94, 96-98, 100, 107-109, 111, 114, 118, 119, 125, 134, 140, 165
Union City	Marvin Tubbs Home: 814-438-7281 Work: 814-438-3441	2-9, 15, 17, 25, 44, 51, 53, 55, 58, 59, 61, 93, 96, 97, 100, 102, 103, 107, 108, 110, 114, 115, 119, 120, 124, 134, 136, 139, 159, 160

RHODE ISLAND

Wickford	David Kerwood Home: 401-295-0857 Work: 401-841-6781	19, 21, 22, 29-31, 33, 36, 41, 98, 104, 109, 111, 114, 116, 117, 119-123, 125, 127, 132, 141, 147, 153-159
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N. Augusta	Don Hostetler Home: 803-279-6456	3-8, 46, 53, 54, 61
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TEXAS

San Antonio	Raymond Merlin Home: 210-496-5331	3-7, 9, 12-15, 20, 22, 24, 25, 29, 31, 34, 94, 98, 109, 113, 114, 116, 118, 119, 121, 125, 132, 134, 140, 141, 147, 151, 152, 155-158
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Virginia Beach	Wayne Sheffield Home: 804-340-6799	3-9, 11, 15, 16, 27-29, 35, 36, 41, 43-47, 49-55, 58, 59, 61, 62, 74, 76, 79, 93, 94, 96, 98, 104, 106, 109, 112-114, 116-120, 122, 130, 133-135, 150, 151, 155, 158, 159
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VERMONT

Salisbury	Douglas Corey Home: 802-352-6689 Work: 802-388-4021	2-9, 11, 12, 15, 24, 42-44, 47-51, 53, 55, 56, 58, 59, 61, 62, 74, 76, 93, 96, 97, 100, 103, 106, 108, 114, 118, 134, 144, 151
Weston	John Nunnikhoven Home: 802-824-6286	3, 5-9, 12, 15, 24, 44, 48, 55, 57, 80, 97, 100, 105, 106, 110, 114, 118, 119, 124, 134, 138, 140, 141

WISCONSIN

Glen Flora	Lucas Mikkelsen Home: 715-322-5633 Work: 715-532-5511 Fax: 715-532-7690	3, 5-9, 15, 25, 29, 43, 44, 46, 50, 53, 55, 58, 59, 79, 84, 94-98, 104, 111, 114, 122, 129, 131, 146, 159
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AUSTRALIA

Caringbah, NSW	DeWayne Bruce Home: (+61-2) 527-4731 Work: (+61-2) 524-3859	1-9, 11, 12, 15, 20, 24, 25, 42-46, 49-59, 61, 62, 66, 70, 71, 74, 79, 93, 94, 97, 107, 110, 112, 114, 115, 118, 119, 123, 129, 134, 138, 140, 146, 147, 151, 159
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CANADA

London, Ontario	Tee Cashmore Home: 519-473-0234 Work: 519-472-2198 (Preferred)	3-7, 9, 12, 15, 18, 25, 29, 30, 35, 36, 46, 53, 80, 82, 84, 91, 95-98, 100, 102, 103, 107-111, 114-116, 118-123, 125, 126, 134, 136, 137, 153, 155-157, 159, 160
Dollard Des Ormeaux, Que.	Dr. J. Hirschberg Home: 514-620-7171 Work: 514-744-7713	1-3, 5-9, 11, 12, 14, 15, 24, 43, 44, 46, 50, 53, 59, 61, 66, 70, 79, 80, 84, 85, 94, 97, 104, 105, 107, 112, 114, 116, 118-123, 126, 127, 151, 155, 159, 160

TAIWAN

Talchung	Bud Simrin Home: 04 623-4117	1-9, 11, 12, 14, 15, 17, 21, 24, 26, 29, 31, 32, 35, 36, 39, 41, 43, 45-51, 53-55, 58, 59, 61-63, 66, 71, 74, 79, 83, 87, 90, 93-95, 97, 98, 100, 103-107, 109-113, 114, 116, 118, 119, 123-125, 129, 131, 132, 134, 137, 146, 147, 150-152, 155, 158, 159
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